

Biological and Oceanographic Data from the Harmful Algae Monitoring Program Associated with Salmon Farm Sites on the West Coast of Canada in 1999

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BIOLOGICAL AND OCEANOGRAPHIC DATA FROM THE HARMFUL ALGAE
MONITORING PROGRAM ASSOCIATED WITH SALMON FARM SITES ON
THE WEST COAST OF CANADA IN 1999

by

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ABSTRACT

Haigh, N., Whyte, J.N.C., and Sherry, K.L. 2004. Biological and oceanographic data from the harmful algae monitoring program associated with salmon farm sites on the west coast of Canada in 1999. *Can. Data Rep. Fish. Aquat. Sci.* 1154: 157 p.

The Harmful Algae Monitoring Program was initiated in 1999 by Fisheries and Oceans Canada in collaboration with the salmon aquaculture industry in British Columbia. Sampling done weekly at farm sites provided data on: phytoplankton species, including those harmful or potentially harmful to finfish; phytoplankton biomass and dominant groups; nutrient (nitrate, phosphate and silicate) levels; and environmental parameters such as temperature, salinity, and dissolved oxygen. In 1999 the sampling period was from mid-June to late October, and 18 sites around Vancouver Island were monitored.

RÉSUMÉ

Haigh, N., Whyte, J.N.C., and Sherry, K.L. 2004. Biological and oceanographic data from the harmful algae monitoring program associated with salmon farm sites on the west coast of Canada in 1999. *Can. Data Rep. Fish. Aquat. Sci.* 1154: 157 p.

Le programme de surveillance des algues toxiques a été initié en 1999 par Pêches et Océans Canada en collaboration avec l'industrie aquicole de la Colombie Britannique. Un échantillonnage hebdomadaire aux sites de mariculture a fourni des données sur la composition des espèces phytoplanctoniques, incluant les algues toxiques ou potentiellement nocives aux poissons, ainsi que sur la biomasse phytoplanctonique et les groupes dominants, les niveaux des sels nutritifs (nitrate, phosphate, silicate), et les paramètres environnementaux tels la température, salinité, et l'oxygène dissous. En 1999, la période d'échantillonnage était de la mi-juin à la fin octobre, et 18 sites autour de l'île de Vancouver ont été échantillonnés.

ACKNOWLEDGEMENTS

The Harmful Algae Monitoring Program was funded by the salmon aquaculture industry in British Columbia. In 1999 companies contributing to the program were Pacific Aqua Sea Foods, Stolt Sea Farm, and Omega Salmon Group. We would like to acknowledge this support, and the efforts of company personnel who helped to get this program up and running, in particular Terry Nielsen and Darrell Volker of PASF. We would also like to thank the farm personnel who carried out the sampling at the monitoring sites and who communicated with us in the instances of harmful algal blooms at salmon aquaculture operations around the coast of British Columbia.

INTRODUCTION

The Harmful Algae Monitoring Program (HAMP) was started in the summer of 1999 with the motivation of Terry Nielsen and Darrell Volker of Pacific Aqua Salmon Farmers (PASF), in co-operation with Dr J.N.C. (Ian) Whyte of Fisheries and Oceans Canada and Nicky Haigh. In 1999 three farm companies (Omega Salmon Group, Stolt Sea Farm, and PASF) took part in the program, with 18 sites around Vancouver Island sampled weekly from mid-June to the end of October. Figure 1 shows the HAMP sampling sites in 1999.

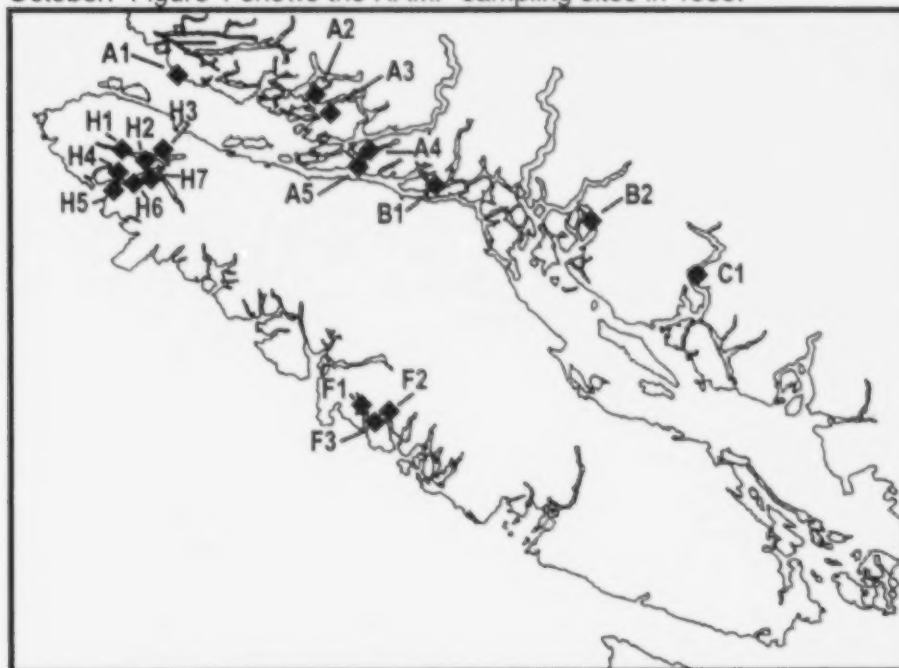


Figure 1: HAMP sampling sites in 1999.

A1	Shelter Bay	B2	Homfray Creek	H2	Thorpe Point
A2	Simoom Sound	C1	Glacial Creek	H3	Coal Harbour
A3	Viner Sound	F1	Pretty Girl Cove	H4	Koprino Harbour
A4	Warren Islands	F2	Bacchante Bay	H5	Koskimo Bay
A5	Boughy Bay	F3	Shelter Channel	H6	Cleagh Creek
B1	Chancellor Channel	H1	Michaelson Rocks	H7	Kultus Cove

This report summarises in tables, figures and graphs the data for the HAMP samples collected in 1999. Tables present the results of analyses for phytoplankton species, dominant species name and counts, estimated total phytoplankton biomass, and percentage of sample biomass in five constituent groups: diatoms, dinoflagellates, raphidophytes, other flagellates, and microzooplankton. The presence of algal species that are harmful or potentially harmful to fish are illustrated in figures for each site monitored. For sites where environmental parameters were provided by the farm companies, graphs of

water temperature, dissolved oxygen (DO), and salinity are presented collectively as a figure for each site. Similarly, water nutrient parameters as concentrations of silicate, phosphate, and nitrate are graphically illustrated for sites where samples were collected in 1999 (Simoom Sound, Boughy Bay, Homfray Creek, Pretty Girl Cove, Thorpe Point, and Kultus Cove).

MATERIALS AND METHODS

PLANKTON SAMPLE COLLECTION

Samples for analyses were collected weekly by farm site personnel. Discrete 100 mL water samples were collected, usually using home-made sampling bottles, from 1m, 5m, and 10 metre depths, and were preserved with Lugol's iodine solution. Samples were then forwarded by courier to the Pacific Biological Station (PBS) in Nanaimo.

PLANKTON SAMPLE ANALYSIS

Plankton samples were analysed typically on the day water samples were received. Samples were resuspended by mixing gently, and a 1 mL aliquot was pipetted into a plastic Sedgewick Rafter cell and allowed to settle for at least five minutes. The whole rafter slide was scanned using a Leitz Wetzlar Dialux microscope: the first 20% of the slide was examined at 100X magnification, and the remainder at 40X, shifting up to 100X when necessary to aid identification of species. All species were identified to highest practicable level, and registered on data sheets. Non-harmful or difficult to differentiate species were sometimes grouped into genus or type (e.g. *Thalassiosira* species as diatoms were grouped together, and gymnodinioid type dinoflagellates were grouped together). In the data sheets each species in the genus or group were given a mark in the corresponding box. If harmful species were present in the sample a count was made of those species (see "Counting Technique"). The dominant species or group in each sample was identified and counted. Total biomass in the sample was estimated on a scale of 1 (very low) to 5 (very high). Proportion of total biomass in each of five groups (diatoms, dinoflagellates, raphidophytes, other flagellates, and microzooplankton) was approximated. Analysis of each sample usually took 20-40 minutes.

COUNTING TECHNIQUE

Most enumeration data from 1999 HAMP algae samples are approximate counts, with less than 100 cells counted for the calculation of cells/mL. In sample data after September 2000, a tilde (~) was used to differentiate approximate counts from "more accurate counts", where more than 100 cells of the species or group in question were enumerated. However, before this counting standard was instituted most counts must be assumed to be approximate, and only those

where cell concentrations are 1000 cells/mL or greater are likely to be calculated from counts of 100 cells or more. Enumeration of harmful algal species often produced approximate counts, as levels were generally less than 100 cells/mL except during blooms, and analysis time constraints usually made it impracticable to count the alga in more than a few rows of the slides.

ENVIRONMENTAL MONITORING

Data sheets for environmental monitoring were provided to the HAMP participant companies. These sheets were to be completed with water temperature, salinity, dissolved oxygen, and other environmental data for the sampling depths at the time and place HAMP samples were taken. This data was then to be sent to PBS for compilation and archiving. This data collection was done to varying degrees by different farm companies and at different sampling sites.

NUTRIENT SAMPLE COLLECTION AND ANALYSIS

Certain HAMP sites were selected for nutrient sampling based on siting and company participation; this sampling was done concurrent with that for phytoplankton analysis. Particulate matter was filtered out using Fisherbrand G4 microfibre filters (1.2 μ m particle retention size) in Swinnex holders attached to 60 mL plastic syringes; filtrate was frozen in 30 mL acid-washed HDPE Nalgene bottles for later analysis. At the end of the sampling season, all collected and preserved samples were analysed for nitrate (including nitrite), phosphate and silicate concentrations using a Technicon AutoAnalyzer.

RESULTS FROM SAMPLES COLLECTED DURING 1999

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Table 1: Diatoms in Shelter Bay samples.

date	08-Jul			15-Jul			22-Jul			19-Aug			26-Aug			02-Sep			16-Sep			23-Sep			30-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																											
<i>Achnanthes</i> sp.																											
<i>Amphiprora</i> <i>Tropidoneis</i>																											
<i>Asterionella japonica</i>																											
<i>Bacteriastrium</i> sp.																											
<i>Biddulphia</i> sp.																											
<i>Campylosira</i> <i>Plagiogramma</i>																											
<i>Cerataulina</i> sp.				1	1	1																					
<i>Chaetoceros concavicornis</i>																											
<i>Chaetoceros convolutus</i>																											
<i>Chaetoceros</i> sp.				3	3	6	5	6	5	3	2	1	6	3	5	1	3										
<i>Corethron hystrix</i>																											
<i>Coscinodiscus</i> sp.																											
<i>Dactyliosolen</i> sp.																											
<i>Ditylum brightwellii</i>							1																				
<i>Eucampia zodiacus</i>																											
<i>Grammatophora</i> sp.																											
<i>Hemiaulus</i> sp.																											
<i>Lauderia annulata</i>																											
<i>Leptocylindrus danicus</i>																											
<i>Leptocylindrus minimus</i>																											
<i>Limnophora</i> sp.				1			1																				
<i>Melosira</i> sp.				1	1	1	1	1	1																		
<i>Navicula</i> sp.				1	1	2	1	1	1																		
<i>Nitzschoid</i> sp.	1						2	1	1	1																	
<i>Pleurosigma Gyrodigma</i> sp.																											
<i>Rhizosolenia setigera</i>																											
<i>Rhizosolenia</i> sp.																											
<i>Rhizosolenia stouteri</i>																											
<i>Skeletonema costatum</i>																											
<i>Stephanopyxis</i> sp.																											
<i>Thalassionema</i> sp.				1	1	1	1	1	1																		
<i>Thalassiosira</i> sp.	1	1	1	2	2	2	2	2	2	2	2	1	1	2	1												

Table 2: Dinoflagellates in Shelter Bay samples.

date depth	08-Jul			15-Jul			22-Jul			19-Aug			26-Aug			02-Sep			16-Sep			23-Sep			30-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																											
<i>Alexandrium</i> sp.																											
<i>Amphidinium</i> sp.																											
<i>Ceratium divicatum</i>																											
<i>Ceratium furca</i>																											
<i>Ceratium fusus</i>																											
<i>Ceratium lineatum</i>																											
<i>Ceratium pentagonum</i>																											
<i>Ceratium</i> sp.																											
<i>Cochlodinium</i> sp.																											
<i>Cochlodinium</i> sp. 99																											
<i>Dinophysis</i> sp.																											
<i>Gonyaulacoid</i> sp.																											
<i>Gymnodinium</i> sp.	1	2	1	1	3	2																					
<i>Gymnodinium galatheanum</i>																											
<i>Gyrodinium spirale</i> -type																											
<i>Heterocapsa triquetra</i>																											
<i>Noctiluca scintillans</i>																											
<i>Noctiluca</i> sp.																											
<i>Oxyrrhis marina</i>																											
<i>Oxytoxum</i> sp.																											
<i>Polykrikos</i> sp.																											
<i>Prorocentrum gracile</i>																											
<i>Prorocentrum micans</i>																											
<i>Prorocentrum</i> sp.																											
<i>Protoperidinium</i> sp.	2	1	7	1																							
<i>Pyrocystis lunula</i>																											
Raphidophytes																											
<i>Heterosigma akashiwo</i>																											

Table 4 : Diatoms in Simoom Sound samples.

date	02-Jul			14-Jul			20-Jul			27-Jul			03-Aug			10-Aug			17-Aug			24-Aug			31-Aug			07-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m			
Diatoms																														
<i>Achnanthes</i> sp.																														
<i>Amphiporal</i> <i>Tropidoneis</i>																														
<i>Asterionella japonica</i>																														
<i>Bacteriastrium</i> sp.																														
<i>Biddulphia</i> sp.																														
<i>Campylosira</i> / <i>Plagiogramma</i>																														
<i>Ceratulina</i> sp.	1																													
<i>Chaetoceros concavicornis</i>																														
<i>Chaetoceros convolutus</i>																														
<i>Chaetoceros</i> sp.	3	3	3	3	4	4	2	7	5	1	5	1	4	4	6	3	5	3	4	7	4	4	4	6	1	3	4	2	3	
<i>Corethron hystrix</i>																														
<i>Coscinodiscus</i> sp.																														
<i>Dactylosolen</i> sp.																														
<i>Ditylum brightwellii</i>																														
<i>Eucampia zoodiacus</i>																														
<i>Grammatophora</i> sp.																														
<i>Hemialius</i> sp.																														
<i>Lauderia annulata</i>																														
<i>Leptocylindrus danicus</i>	1																													
<i>Leptocylindrus minimus</i>																														
<i>Limnophora</i> sp.																														
<i>Melosira</i> sp.																														
<i>Navicula</i> sp.																														
<i>Nitzschoid</i> sp.	1			2	1	1	2	1	1	2			1	2	1	2	2		2	1	1	1	1	1	1	1	2	2		
<i>Pleurosigma</i> / <i>Gyrosigma</i> sp.																														
<i>Rhizosolenia setigera</i>																														
<i>Rhizosolenia</i> sp.	1																													
<i>Rhizosolenia stelleri</i> / <i>thii</i>																														
<i>Skeletonema costatum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
<i>Stephanopyxis</i> sp.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
<i>Thalassionema</i> sp.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	
<i>Thalassiosira</i> sp.																														

Table 4 cont'd

date	14-Sep			21-Sep			28-Sep			05-Oct			12-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms															
<i>Achnanthes</i> sp.															
<i>Amphiprora</i> <i>Tropidonella</i>															
<i>Asterionella</i> <i>japonica</i>															
<i>Bacterastrium</i> sp.										1					
<i>Biddulphia</i> sp.															
<i>Campylosira</i> <i>Plagiogramma</i>										1	1				
<i>Cerataia</i> sp.															
<i>Chaetoceros</i> <i>concalvicorne</i>															
<i>Chaetoceros</i> <i>convolutus</i>	1	4	2	2	3		1	3	5	7	3	2	1		
<i>Chaetoceros</i> sp.															
<i>Corethron</i> <i>hystrix</i>							1	1				1			
<i>Coscinodiscus</i> sp.				1	1	1									
<i>Dactylosolen</i> sp.															
<i>Ditylum</i> <i>brightwellii</i>	1														
<i>Eucampia</i> <i>zoodiacus</i>										1	1	1			
<i>Grammatophora</i> sp.															
<i>Hemialus</i> sp.															
<i>Lauderia</i> <i>annulata</i>															
<i>Leptocylindrus</i> <i>danicus</i>	1						1	1	1	1	1	1	1		
<i>Leptocylindrus</i> <i>minimus</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Liencophora</i> sp.															
<i>Melosira</i> sp.															
<i>Navicula</i> sp.															
<i>Nitzschia</i> sp.	3	1	1	1	1	1	2	3	1	2	1	3			2
<i>Pleurosigma</i> <i>Gyrosigma</i> sp.															
<i>Rhizosolenia</i> <i>sebigera</i>															
<i>Rhizosolenia</i> sp.	1														
<i>Rhizosolenia</i> <i>stouteri</i> <i>thii</i>															
<i>Skeletonema</i> <i>costatum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Stephanopyxis</i> sp.															
<i>Thalassionema</i> sp.	1	1		1	1					1				1	
<i>Thalassiosira</i> sp.	2	4	3	2	2	1	2	3	2	2	3	2	3	2	2

Table 5 : Dinoflagellates in Simoom Sound samples.

date	02-Jul			14-Jul			20-Jul			27-Jul			03-Aug			10-Aug			17-Aug			24-Aug			31-Aug			07-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m			
Dinoflagellates																														
<i>Alexandrium</i> sp.										1				1	1	1	1	1	1	1	1					1	1			
<i>Amphidinium</i> sp.	1	1																												
<i>Ceratium divericatum</i>																														
<i>Ceratium furca</i>																														
<i>Ceratium fusus</i>																														
<i>Ceratium lineatum</i>																														
<i>Ceratium pentagonum</i>																														
<i>Ceratium</i> sp.																														
<i>Cochlodinium</i> sp.																														
<i>Cochlodinium</i> sp. 99																														
<i>Dinophysioid</i> sp.																														
<i>Gonyaulacoid</i> sp.																														
<i>Gymnodinioid</i> sp.																														
<i>Gymnodinium galatheanum</i>																														
<i>Gyrodinium spirale</i> -type																														
<i>Heterocapsa triquetra</i>																														
<i>Noctiluca scintillans</i>																														
<i>Noctiluca</i> sp.																														
<i>Oxymyces</i> sp.																														
<i>Oxymyces</i> sp.																														
<i>Polykrikos</i> sp.																														
<i>Prorocentrum gracile</i>																														
<i>Prorocentrum micans</i>																														
<i>Prorocentrum minimum</i>																														
<i>Prorocentrum</i> sp.																														
<i>Prorocentrum</i> sp.																														
<i>Prorocentrum</i> sp.																														
<i>Prorocentrum</i> sp.																														
<i>Prorocentrum</i> sp.																														
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<i>Prorocentrum</i> sp.																														
<i>Prorocentrum</i> sp.																														
<i>Prorocentrum</i> sp.																														
<i>Prorocentrum</i> sp.																														

Table 5 cont'd

date depth	14-Sep			21-Sep			28-Sep			05-Oct			12-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates															
<i>Alexandrium</i> sp.				1	1	1	1	1	1			1			
<i>Amphidinium</i> sp.		1													
<i>Ceratium divericatum</i>															
<i>Ceratium furca</i>													1		
<i>Ceratium fusus</i>		1	1		1				1						
<i>Ceratium lineatum</i>															
<i>Ceratium pentagonum</i>															
<i>Ceratium</i> sp.															
<i>Cochlodinium</i> sp.															
<i>Cochlodinium</i> sp. 99													1		
<i>Dinophysis</i> sp.															
<i>Gonyaulacoid</i> sp.															
<i>Gymnodinium</i> sp.	6	5	2	5	6	3	5	6	2	1	8	6	5	7	4
<i>Gymnodinium galatheanum</i>															
<i>Gyrodinium spirale</i> -type	2	2		2	2	2	2	1	2	1	1	2	2		
<i>Heterocapsa triquetra</i>					1					1			1		
<i>Nociluca scintillans</i>	1	1				1		1	1				1		
<i>Nociluca</i> sp.															
<i>Oxyrhis marina</i>					1										
<i>Oxytoxum</i> sp.															
<i>Polykrikos</i> sp.															
<i>Prorocentrum gracile</i>					1				1						
<i>Prorocentrum micans</i>															
<i>Prorocentrum minimum</i>					1					1	1				
<i>Prorocentrum</i> sp.															
<i>Protoperidinium</i> sp.	5	2	3	3	3	3	2	1	1	4	5		2		
<i>Pyrocystis lunula</i>															
Raphidophytes															
<i>Heterosigma akashiwo</i>															

Table 6: Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Simoom Sound samples.

date depth	02-Jul			14-Jul			20-Jul			27-Jul			03-Aug			10-Aug			17-Aug			24-Aug			31-Aug			07-Sep								
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m									
Other Flagellates																																				
Cryptomonads																																				
<i>Dictyocha speculum</i>			1																																	
<i>Dinobryon bellicum</i>																																				
<i>Ebria bipartita</i>																																				
Euglenoid																																				
<i>Phaeocystis pouchetii</i>																																				
Radiolarian																																				
unid. Nanoflagellates	6	3	3	4	5	5	7	3	2	5	4	3	5	3	4	5	4	3	5	5	3	5	3	2	5	3	2	3	4	3						
Zooplankton																																				
Appendicularian																																				
Biomnaria																																				
Ciliate	8	7	3	5	8	4	6	4	2	5	8	6	6	8	4	7	5	1	7	9	3	4	5	1	5	3	1	8	6	1						
Copepod																																				
Fungus																																				
Nauplius									1																											
Pluteus																																				
Rotifer																																				
Tintinnid	4						2	2											2	1								1								
Zoea																																				
other								1			1																									
Dominant Species/Group																																				
name	Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Pseudonitzschia sp.								
	Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Ceratium fusus								
	Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Leptocylindrus minimus								
	count (cells/mL)	7000	100	100	2400	100	100	150	100	100	1600	100	100	100	100	100	2000	100	100	900	100	100	3400	100	100	450	100	100	100	80	320					
% constituent	Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Chaetoceros spp.					
	Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Ceratium fusus					
	Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Skeletonema costatum			Chaetoceros spp.					
	count (cells/mL)	7000	100	100	2400	100	100	150	100	100	1600	100	100	100	100	100	2000	100	100	900	100	100	3400	100	100	450	100	100	100	100	80					
Diatoms	Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Noctiluca scintillans		
	Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Ceratium fusus		
	Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Diatoms			Skelettonema costatum		
	count (cells/mL)	7000	100	100	2400	100	100	150	100	100	1600	100	100	100	100	100	2000	100	100	900	100	100	3400	100	100	450	100	100	100	100	80					
Dinoflagellates	Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Chaetoceros spp.		
	Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Ceratium fusus		
	Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Dinoflagellates			Chaetoceros spp.		
	count (cells/mL)	7000	100	100	2400	100	100	150	100	100	1600	100	100	100	100	100	2000	100	100	900	100	100	3400	100	100	450	100	100	100	100	80					
Raphidophytes	Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Noctiluca scintillans		
	Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Ceratium fusus		
	Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Raphidophytes			Chaetoceros spp.		
	count (cells/mL)	7000	100	100	2400	100	100	150	100	100	1600	100	100	100	100	100	2000	100	100	900	100	100	3400	100	100	450	100	100	100	100	80					
Other Flagellates	Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Noctiluca scintillans		
	Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Ceratium fusus		
	Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Other Flagellates			Chaetoceros spp.		
	count (cells/mL)	7000	100	100	2400	100	100	150	100	100	1600	100	100	100	100	100	2000	100	100	900	100	100	3400	100	100	450	100	100	100	100	80					
Zooplankton	Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Skelettonema costatum		
	Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Skelettonema costatum		
	Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Zooplankton			Skelettonema costatum		
	count (cells/mL)	7000	100	100	2400	100	100	150	100	100	1600	100	100	100	100	100	2000	100	100	900	100	100	3400	100	100	450	100	100	100	100	80					
Biomass	Biomass			Biomass			Biomass			Biomass			Biomass			Biomass			Biomass			Biomass			Biomass			Biomass			Biomass			Skelettonema costatum		
	Biomass			Biomass			Biomass			Biomass			Biomass			Biomass			Biomass			Biomass			Biomass			Biomass			Biomass			Skelettonema costatum		
	Biomass			Biomass			Biomass			Biomass			Biomass			Biomass			Biomass			Biomass			Biomass			Biomass			Biomass			Skelettonema costatum		
	count (cells/mL)	7000	100	100	2400	100	100	150	100	100	1600	100	100	100	100	100	2000	100	100	900	100	100	3400	100	100	450	100	100	100	100	80					

Table 6 cont'd

date	depth	14-Sep			21-Sep			28-Sep			05-Oct			12-Oct		
		1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																
Cryptomonads																
<i>Dictyocha speculum</i>							1									
<i>Dinobryon bellicum</i>																
<i>Ebria tripartita</i>												1			1	1
Euglenoid																
<i>Phaeocystis pouchetii</i>							1									
Radiolarian																
und. Nanoflagellates		5	4	3	3	4	4	4	3	3	4	3	5	5	4	4
Zooplankton																
Appendicularian																
Ciliate																
Copepod		7	6	2	5	7	4	6	3	4	10	7	5	6	4	1
Nauplius																
Pluteus																
Rotifer							1									
Tintinid												1			1	
Zoea				1												
other																
Dominant Species/Group																
name																
															</	

Table 7 : Diatoms in Viner Sound samples.

Diatoms	02-Jul			14-Jul			20-Jul			27-Jul			03-Aug			10-Aug			17-Aug			24-Aug			31-Aug			07-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
<i>Achnanthes</i> sp.																														
<i>Amphiporai</i> <i>Tropidoneis</i>																														
<i>Asterionella japonica</i>																														
<i>Bacteriastrium</i> sp.																														
<i>Biddulphia</i> sp.																														
<i>Campylodiscus</i> <i>Plagiodon</i>																														
<i>Ceratolalia</i> sp.	1	1											1						1	1										
<i>Cheilosira concavicornis</i>																														
<i>Cheilosira convolutus</i>																														
<i>Cheilosira</i> sp.	3	2	1	7	6	5	7	6	5	6	9	5	6	7	8	10	3	6	8	4	5	6	3	8	6	2	5	6	5	
<i>Corethron hystrix</i>																														
<i>Coscinodiscus</i> sp.																														
<i>Dactylosolen</i> sp.																														
<i>Ditylum brightwellii</i>																														
<i>Eucampia zoodiacus</i>																														
<i>Grammatophora</i> sp.																														
<i>Hemiallus</i> sp.																														
<i>Lauderia annulata</i>																														
<i>Leptocylindrus danicus</i>																														
<i>Leptocylindrus minimus</i>																														
<i>Lernophora</i> sp.																														
<i>Melosira</i> sp.																														
<i>Navicula</i> sp.																														
<i>Nitzschoid</i> sp.																														
<i>Pleurosigma Gyrosigma</i> sp.																														
<i>Rhizosolenia setigera</i>																														
<i>Rhizosolenia</i> sp.	1	1																												
<i>Rhizosolenia stollertii</i>																														
<i>Skeletonema costatum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Stephanopyxis</i> sp.																														
<i>Thalassonema</i> sp.	1	1	1																											
<i>Thalassosira</i> sp.	1	1	1	2	2	1	1	1	1	1	2	1	1	1	1	2	1	1	1	1	1	1	1	1	3	1	1	3	2	2

Table 7 cont'd

diatoms	14-Sep			21-Sep			28-Sep			05-Oct			12-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
<i>Achnanthes</i> sp.															
<i>Amphipora</i> <i>Tropidoneis</i>															
<i>Asterionella japonica</i>															
<i>Bacteriaster</i> sp.															
<i>Biddulphia</i> sp.														1	
<i>Campylosira</i> <i>Plagiogramma</i>															
<i>Cerataia</i> sp.															
<i>Chaetoceros concavicornis</i>															
<i>Chaetoceros convolutus</i>															
<i>Chaetoceros</i> sp.	3	3		2	3	5	4	3	3	3	6	3	2	2	1
<i>Corethron hystrix</i>															
<i>Coscinodiscus</i> sp.				1											1
<i>Dactylosolen</i> sp.							1								
<i>Ditylum brightwellii</i>	1	1		1			1				1				
<i>Eucampia zoodiacus</i>													1		
<i>Grammatophora</i> sp.															
<i>Hamulatus</i> sp.															
<i>Laudenia annulata</i>															
<i>Leptocylindrus danicus</i>				1						1	1	1	1	1	1
<i>Leptocylindrus minimus</i>	1						1	1	1	1	1	1			1
<i>Leptophora</i> sp.															
<i>Melosira</i> sp.															
<i>Navicula</i> sp.							1	1	1	1	1	1			
<i>Nitzschoid</i> sp.	1	2	1	1	1	1	1	1	1	1	2	1	1	1	1
<i>Pleurosigma Gyrosigma</i> sp.															
<i>Rhizosolenia setigera</i>												1			
<i>Rhizosolenia</i> sp.														1	1
<i>Rhizosolenia stofferletii</i>															
<i>Skeletonema costatum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Stephanopyxis</i> sp.															
<i>Thalassionema</i> sp.	1						1	1							
<i>Thalassiosira</i> sp.	2	2	2	1	3	2	3	2	2	4	3	2	2	1	2

Table 8 : Dinoflagellates in Viner Sound samples.

Date depth	02-Jul			14-Jul			20-Jul			27-Jul			03-Aug			10-Aug			17-Aug			24-Aug			31-Aug			07-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
<i>Alexandrium</i> sp.							1																							
<i>Amphidinium</i> sp.																														
<i>Ceratium divercatum</i>																														
<i>Ceratium furca</i>																														
<i>Ceratium fusus</i>																														
<i>Ceratium lineatum</i>																														
<i>Ceratium pentagonum</i>																														
<i>Ceratium</i> sp.																														
<i>Cochlodinium</i> sp.																														
<i>Cochlodinium</i> sp. 99																														
<i>Dinophysis</i> sp.																														
<i>Gonyaulacoid</i> sp.																														
<i>Gymnodinium</i> sp.																														
<i>Gymnodinium galatheanum</i>																														
<i>Gyrodinium spirale</i> -type																														
<i>Heterocapsa triquetra</i>																														
<i>Noctiluca scintillans</i>																														
<i>Noctiluca</i> sp.																														
<i>Oxyrhis marina</i>																														
<i>Oxytoxum</i> sp.																														
<i>Polykrikos</i> sp.																														
<i>Prorocentrum gracile</i>																														
<i>Prorocentrum micans</i>																														
<i>Prorocentrum minimum</i>																														
<i>Prorocentrum</i> sp.																														
<i>Protoperidinium</i> sp.																														
<i>Pyrocystis lunula</i>																														
<i>Raphidophytes</i>																														
<i>Heterosigma akashiwo</i>																														

Table 8 cont'd

date depth	14-Sep			21-Sep			28-Sep			05-Oct			12-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates															
<i>Alexandrium</i> sp.										1					
<i>Amphidinium</i> sp.															
<i>Ceratium divicatum</i>															
<i>Ceratium furca</i>															
<i>Ceratium fusus</i>							1							1	1
<i>Ceratium lineatum</i>															
<i>Ceratium pentagonum</i>															
<i>Ceratium</i> sp.										1					
<i>Cochlodinium</i> sp.															
<i>Cochlodinium</i> sp. 99															
<i>Dinophysis</i> sp.															
<i>Gonyaulacoid</i> sp.	2	2	1	1	2										
<i>Gymnodinium</i> sp.	4	5	3	6	3	4	2	3	1	5	2	2	5	6	4
<i>Gymnodinium</i> sp.															
<i>Gymnodinium galatheanum</i>															
<i>Gyrodinium spirale</i> -type															
<i>Heterocapsa triquetra</i>	1	1	1	1	1	4	1			1	2	1		1	1
<i>Noctiluca scintillans</i>															
<i>Noctiluca</i> sp.															
<i>Oryzopsis marina</i>															
<i>Oryzopsis</i> sp.															
<i>Polykrikos</i> sp.															
<i>Prorocentrum gracile</i>	1		1	1	1					1	1		1		
<i>Prorocentrum micans</i>															
<i>Prorocentrum minimum</i>	1									1			1		
<i>Prorocentrum</i> sp.															
<i>Protoperidinioid</i> sp.	5	1	4	4			1	3	2	4	2			2	1
<i>Pycnocystis lunula</i>															
Raphidophytes															
<i>Heterosigma akashiwo</i>		1													

Table 9 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Viner Sound samples.

date depth	02-Jul			14-Jul			20-Jul			27-Jul			03-Aug			10-Aug			17-Aug			24-Aug			31-Aug			07-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
<i>Dityrocha speculum</i>		1	1																											
<i>Dinobryon balticum</i>																														
<i>Ebria tripartita</i>																														
Euglenoid																														
<i>Phaeocystis pouchetii</i>																														
Radiolarian																														
unid. Nanoflagellates	5	4	2	4	4	3	4	3	3	4	4	2	3	5	4	4	3	5	3	3	3	6	3	2	5	4	2	7	5	3
Zooplankton																														
Appendicularian																														
Ciliate	8	2	1	5	5		8	6	2	2	5	4	2	4	3	4	3	1	6	1	3	3	1	1	5	4	1	3	2	4
Copepod				1							1		1	1																
Nauplius																														
Plutei																														
Rotifer	1			1							1		1																1	1
Tintinnid	2	1					1	3			1		1	1	1				1	2					1	1	1	2	1	1
Zoea																														
other																														
Dominant Species/Group																														
name																														
count (cells/mL)	4400																													
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	77	90	91	88	88	88	55	78	88	87	90	95	75	95	89	90	97	93	84	97	94	75	90	90	85	90	88	87	94	88
	10	3	3	5	5	5	20	10	5	5	1	1	10	2	4	1	5	10	1	1	1	5	1	1	9	3	2	10	2	5
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	3	3	3	2	2	2	5	2	2	3	1	1	5	1	1	3	1	1	1	1	1	15	8	8	1	1	5	2	2	2
	10	4	3	5	5	5	20	10	5	5	8	3	10	2	5	3	1	1	5	1	4	5	1	1	5	6	5	1	2	5
	3.5	2.5	1.5	4.5	4.0	3.0	3.0	4.0	3.0	3.0	4.0	3.5	3.0	4.0	3.0	3.5	4.5	2.0	4.0	4.5	2.0	3.5	3.5	2.0	4.0	2.5	2.0	4.0	4.0	3.5

Table 9 cont'd

[illegible]

Table 10 : Diatoms in Warren Islands samples.

date depth	05-Jul			12-Jul			19-Jul			26-Jul			02-Aug			09-Aug			16-Aug			23-Aug			30-Aug			06-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
<i>Achnanthes</i> sp.																														
<i>Amphiprora</i> <i>Tropidoneis</i>																														
<i>Asterionella japonica</i>																														
<i>Bacteriasira</i> sp.																														
<i>Biddulphia</i> sp.																														
<i>Campyosira</i> <i>Plagiogramma</i>																														
<i>Ceratalella</i> sp.																														
<i>Chaetoceros concavicornis</i>																														
<i>Chaetoceros convolutus</i>																														
<i>Chaetoceros</i> sp.																														
<i>Corethron hystrix</i>																														
<i>Coscinodiscus</i> sp.																														
<i>Dactylosolen</i> sp.																														
<i>Ditylum brightwellii</i>																														
<i>Eucampia zoodiacus</i>																														
<i>Grammatophora</i> sp.																														
<i>Hemiaulus</i> sp.																														
<i>Lauderia annulata</i>																														
<i>Leptocylindrus danicus</i>																														
<i>Leptocylindrus minimus</i>																														
<i>Licmophora</i> sp.																														
<i>Melosira</i> sp.																														
<i>Navicula</i> sp.																														
<i>Nitzschia</i> sp.																														
<i>Pleurosigma</i> <i>Gyrosigma</i> sp.																														
<i>Rhizosolenia setigera</i>																														
<i>Rhizosolenia</i> sp.																														
<i>Rhizosolenia stollerfothii</i>																														
<i>Skeletonema costatum</i>																														
<i>Stephanopyxis</i> sp.																														
<i>Thalassionema</i> sp.																														
<i>Thalassiosira</i> sp.																														

Table 10 cont'd

date depth	13-Sep			20-Sep			27-Sep			04-Oct			11-Oct			18-Oct			25-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
<i>Achnanthes</i> sp.																					
<i>Amphiprora</i> <i>Tropidoneis</i>																					
<i>Asterionella japonica</i>																					
<i>Bacteriastrium</i> sp.												1									
<i>Biddulphia</i> sp.																					
<i>Campylosira</i> <i>Plagiogramma</i>																					
<i>Ceraulalima</i> sp.																					
<i>Chaetoceros concavicornis</i>																					
<i>Chaetoceros convolutus</i>	1			1	1		1			1	1		1	1		1				1	
<i>Chaetoceros</i> sp.	1	4	3	3	3	1	2						1								
<i>Corethron hystrix</i>																					
<i>Coscinodiscus</i> sp.																					
<i>Dactylosolen</i> sp.																					
<i>Dityum brightwellii</i>																					
<i>Eucampia zoodiacus</i>																					
<i>Grammatophora</i> sp.																					
<i>Hemielus</i> sp.																					
<i>Lauderia annulata</i>																					
<i>Leptocylindrus danicus</i>																					
<i>Leptocylindrus minimus</i>																					
<i>Licmophora</i> sp.																					
<i>Melosira</i> sp.																					
<i>Navicula</i> sp.																					
<i>Nitzschoid</i> sp.																					
<i>Pleurosigma Gyrosigma</i> sp.																					
<i>Rhizosolenia setigera</i>																					
<i>Rhizosolenia</i> sp.																					
<i>Rhizosolenia stictiothol</i>																					
<i>Rhizosolenia costatum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Skeletonema costatum</i>																					
<i>Stephanopyxis</i> sp.																					
<i>Thalassionema</i> sp.																					
<i>Thalassiosira</i> sp.	2	1	1	4	3	2	3	3	2				1			2					

[illegible]

Table 11 cont'd

date	13-Sep			20-Sep			27-Sep			04-Oct			11-Oct			18-Oct			25-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																					
<i>Alexandrium</i> sp.																					
<i>Amphidinium</i> sp.																					
<i>Ceratium divorticatum</i>																					
<i>Ceratium furca</i>			1																		
<i>Ceratium fusus</i>																					
<i>Ceratium lineatum</i>																					
<i>Ceratium pentagonum</i>																					
<i>Ceratium</i> sp.																					
<i>Cochlodinium</i> sp.																					
<i>Cochlodinium</i> sp. 99																					
<i>Dinophysis</i> sp.																					
<i>Gonyaulacoid</i> sp.																					
<i>Gymnodinium</i> sp.	3	3	2	4	3	1	4	2	1	1	1	2	1	2	1	2	2	1	2	1	1
<i>Gymnodinium galatheanum</i>																					
<i>Gyrodinium spirale</i> -type	1						1	2													
<i>Heterocapsa triquetra</i>																					
<i>Noctiluca scintillans</i>																					
<i>Noctiluca</i> sp.																					
<i>Oxyrhis marina</i>																					
<i>Oxytoxum</i> sp.																					
<i>Polykrikos</i> sp.																					
<i>Prorocentrum gracile</i>																					
<i>Prorocentrum micans</i>																					
<i>Prorocentrum minimum</i>																					
<i>Prorocentrum</i> sp.																					
<i>Protoperidinium</i> sp.	3			1		1	1	1		1											
<i>Pycnostis lunula</i>																					
Raphidophytes																					
<i>Heterosigma akashiwo</i>																					

Table 12 cont'd

date	depth	13-Sep			20-Sep			27-Sep			04-Oct			11-Oct			18-Oct			25-Oct		
		1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																						
Cryptomonads																						
Dictyocha speculum				1																		
Dinobryon balticum																						
Ebria tripartita																						
Euglenoid																						
Phaeocystis pouchetii																						
Radiolarians																						
und. Nanoflagellates		5	2	3	4	3	4	4	3	4	4	2	3	4	4	3	3	4	3	3	3	3
Zooplankton																						
Appendicularian																						
Ciliate		4	2	1	5	4	1	7	5	1	5	4	1	7	1	1	1	3	3	5	5	5
Copepod																						
Nauplius							1															
Pluteus																						
Rotifer																						
Tintinnid					1			1				1										1
Zoea																						
other																						
Dominant Species/Group																						
name	Skeletonema costatum																					
	Skeletonema costatum																					
	Skeletonema costatum																					
	Skeletonema costatum																					
count (cells/mL)	Skeletonema costatum																					
	Skeletonema costatum																					
	Skeletonema costatum																					
	Skeletonema costatum																					
% constituent	Skeletonema costatum																					
	Skeletonema costatum																					
	Skeletonema costatum																					
	Skeletonema costatum																					
Diatoms	Skeletonema costatum																					
	Skeletonema costatum																					
	Skeletonema costatum																					
	Skeletonema costatum																					
Dinoflagellates	Skeletonema costatum																					
	Skeletonema costatum																					
	Skeletonema costatum																					
	Skeletonema costatum																					
Raphidophytes	Skeletonema costatum																					
	Skeletonema costatum																					
	Skeletonema costatum																					
	Skeletonema costatum																					
Other Flagellates	Skeletonema costatum																					
	Skeletonema costatum																					
	Skeletonema costatum																					
	Skeletonema costatum																					
Zooplankton	Skeletonema costatum																					
	Skeletonema costatum																					
	Skeletonema costatum																					
	Skeletonema costatum																					
Biomass	Skeletonema costatum																					
	Skeletonema costatum																					
	Skeletonema costatum																					
	Skeletonema costatum																					

Table 13 : Diatoms in Boughy Bay samples.

Diatoms	5-Jul			12-Jul			19-Jul			26-Jul			2-Aug			9-Aug			16-Aug			23-Aug			30-Aug			6-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
<i>Achnanthes</i> sp.																														
<i>Amphiporael Tropiconeis</i>																														
<i>Asterionella japonica</i>																														
<i>Bacteriastrium</i> sp.																														
<i>Biddulphia</i> sp.																														
<i>Campylosira</i> sp.																														
<i>Cerataulina</i> sp.																														
<i>Chaetoceros concavicornis</i>																														
<i>Chaetoceros convolutus</i>																														
<i>Chaetoceros</i> sp.	3	2	1	4	3	2	4	4	2	6	6	6	6	7	6	6	3	4	2	5	5	5	4	3	3	3	3	3	3	3
<i>Corethron hystrix</i>	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Coscinodiscus</i> sp.																														
<i>Dactylosolen</i> sp.																														
<i>Ditylum brightwellii</i>																														
<i>Eucampia zoodiacus</i>																														
<i>Grammatophora</i> sp.																														
<i>Hemialus</i> sp.																														
<i>Lauderia annulata</i>	1																													
<i>Leptocylindrus danicus</i>																														
<i>Leptocylindrus minimus</i>																														
<i>Licmophora</i> sp.																														
<i>Melosira</i> sp.																														
<i>Navicula</i> sp.	1	1	2	1	1	1																								
<i>Nitzschoid</i> sp.																														
<i>Pleurosigma Gyrodigma</i> sp.																														
<i>Rhizosolenia setigera</i>																														
<i>Rhizosolenia</i> sp.																														
<i>Rhizosolenia stelleri</i>																														
<i>Skeletonema costatum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Stephanopyxis</i> sp.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Thalassionema</i> sp.	1	1	1	2	1	1	1	2	1	3	2	2	2	2	2	3	3	3	2	1	1	2	2	1	1	1	2	1	2	1
<i>Thalassiosira</i> sp.																														

Table 13 cont'd

date depth	13-Sep			20-Sep			27-Sep			4-Oct			11-Oct			18-Oct			25-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
<i>Achnanthes</i> sp.																					
<i>Amphiprora</i> <i>Tropidoneis</i>																					
<i>Asterionella japonica</i>																					
<i>Bacteriasterum</i> sp.																					
<i>Biddulphia</i> sp.													1								
<i>Campylosira</i> / <i>Plagiogramma</i>																					
<i>Cerataia</i> sp.																					
<i>Chaetoceros concavicornis</i>																					
<i>Chaetoceros convolutus</i>																					
<i>Chaetoceros</i> sp.	3	4	2	4	2	2	2	1	1	3	3	2	2	3		1		1			
<i>Corethron hystrix</i>	1																				
<i>Coscinodiscus</i> sp.																					
<i>Dactylosolen</i> sp.																					
<i>Ditylum brightwellii</i>																					
<i>Eucampia zoodiacus</i>																					
<i>Grammatophora</i> sp.																					
<i>Hemialus</i> sp.																					
<i>Leuderia annulata</i>																					
<i>Leptocylindrus danicus</i>																					
<i>Leptocylindrus minimus</i>																					
<i>Limnophora</i> sp.																					
<i>Melosira</i> sp.																					
<i>Navicula</i> sp.																					
<i>Nitzschoid</i> sp.																					
<i>Pleurosigma</i> / <i>Gyrosigma</i> sp.																					
<i>Rhizosolenia setigera</i>																					
<i>Rhizosolenia</i> sp.																					
<i>Rhizosolenia stouteri</i> / <i>thii</i>																					
<i>Skeletonema costatum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Stephanopyxis</i> sp.																					
<i>Thalassionema</i> sp.																					
<i>Thalassiosira</i> sp.	2	3		3	3	3	2	2	2	1	1	2	1								

Table 14 : Dinoflagellates in Boughy Bay samples.

date	5-Jul			12-Jul			19-Jul			26-Jul			2-Aug			9-Aug			16-Aug			23-Aug			30-Aug			6-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m			
Dinoflagellates																														
<i>Alexandrium</i> sp.																														
<i>Amphidinium</i> sp.																														
<i>Ceratium divercatum</i>																														
<i>Ceratium furca</i>																														
<i>Ceratium fusus</i>																														
<i>Ceratium lineatum</i>																														
<i>Ceratium pentagonum</i>																														
<i>Ceratium</i> sp.																														
<i>Cochlodinium</i> sp.						1																								
<i>Dinophysiod</i> sp.																														
<i>Gonyaulacoid</i> sp.																														
<i>Gymnodinium</i> sp.																														
<i>Gymnodinium galatheanum</i>																														
<i>Gyrodinium spirale</i> -type																														
<i>Heterocapsa triquetra</i>																														
<i>Noctiluca scintillans</i>																														
<i>Noctiluca</i> sp.																														
<i>Oxymis marina</i>																														
<i>Oxytosum</i> sp.																														
<i>Polykrikos</i> sp.																														
<i>Prorocentrum gracile</i>																														
<i>Prorocentrum micans</i>																														
<i>Prorocentrum minimum</i>																														
<i>Prorocentrum</i> sp.																														
<i>Protoperidinioid</i> sp.																														
<i>Pyrocystis lunula</i>																														
Raphidophytes																														
<i>Heterosigma akashiwo</i>																														

Table 14 cont'd

	date depth	13-Sep			20-Sep			27-Sep			4-Oct			11-Oct			18-Oct			25-Oct		
		1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																						
<i>Alexandrium</i> sp.																						
<i>Amphidinium</i> sp.																						
<i>Ceratium diverciculatum</i>																						
<i>Ceratium furca</i>								1														
<i>Ceratium fusus</i>																						
<i>Ceratium lineatum</i>																						
<i>Ceratium pentagonum</i>																						
<i>Ceratium</i> sp.																						
<i>Cochlodinium</i> sp.																						
<i>Dinophysis</i> sp.																						
<i>Gonyaulacoid</i> sp.																						
<i>Gymnodinium</i> sp.		1			3	1	3	2	2	1	5	4	1	2	1	2	1	3	3	1		
<i>Gymnodinium galatheanum</i>																						
<i>Gyrodinium spirale</i> -type							2	1	1		1	1	1									
<i>Heterocapsa triquetra</i>											1	1										
<i>Noctiluca scintillans</i>																						
<i>Noctiluca</i> sp.																						
<i>Oxyrhis marina</i>																						
<i>Oxytoxum</i> sp.																						
<i>Polykrikos</i> sp.																						
<i>Prorocentrum gracile</i>																						
<i>Prorocentrum micans</i>																						
<i>Prorocentrum minimum</i>																						
<i>Prorocentrum</i> sp.																						
<i>Protoperidinium</i> sp.		1	1	2	2						2			1			1					
<i>Pyrocystis lunula</i>																						
Raphidophytes																						
<i>Heterosigma akashiwo</i>																						

Table 15 cont'd

date	13-Sep			20-Sep			27-Sep			4-Oct			11-Oct			18-Oct			25-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																					
Cryptomonads																					
Dictyocha speculum																					
Dinobryon bellicum																					
Ebria imperitella																					
Euglenoid																					
Phaeocystis pouchetii																					
Radiolarians																					
und. Nanoflagellates	3	4	2	3	4	2	2	3	4	3	4	3	5	3	4	3	4	3	3	4	2
Zooplankton																					
Appendicularian																					
Ciliate																					
Copepod	4	4	3	6	1	4	1	3	3	6	8	2	4	2	3	5	4	3	4	5	3
Nauplius																					
Pluteus																					
Rotifer																					
Tritinnid													1	1							
Zoea																					
other																					
Dominant Species/Group																					
name																					
	Skeletonema costatum																				
		1140																			
	Skeletonema costatum																				
			500																		
	Skeletonema costatum			4200																	
					100	100															
count (cells/mL)																					
% constituent																					
Diatoms																					
		80	94	96	80	85	85	85	85	80	80	92	50	70	55	40	35	65	60	70	
Dinoflagellates		5	1	2	1	1	5	10	10	5	10	3	10	5	10	5	10	15	15	5	
Raphidophytes		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Flagellates		1	1	2	1	2	1	1	1	1	1	1	1	5	5	20	15	20	5	5	
Zooplankton		14	4	2	3	3	13	4	4	9	9	4	30	20	30	40	35	15	20	20	
Biomass																					
		3.0	3.5	2	4.0	3.0	3.5	3.5	3.5	3.0	3.5	3.0	1.5	1.5	1.5	1.0	1.0	2.0	2.0	2.0	

Table 16 : Diatoms in Chancellor Channel samples.

date	8-Jul			15-Jul			22-Jul			29-Jul			5-Aug			12-Aug			19-Aug			2-Sep			9-Sep			16-Sep		
	depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m		
Diatoms																														
<i>Achnanthes</i> sp.																														
<i>Amphipora</i> <i>Tropidoneis</i>																														
<i>Asterionella japonica</i>																														
<i>Bacteriastrium</i> sp.																														
<i>Biddulphia</i> sp.																														
<i>Campylodiscus</i> <i>Plagiogramma</i>																														
<i>Ceratulina</i> sp.																														
<i>Chaetoceros concavicornis</i>																														
<i>Chaetoceros convolutus</i>																														
<i>Chaetoceros</i> sp.																														
<i>Corethron hystrix</i>																														
<i>Coscinodiscus</i> sp.																														
<i>Dactylosolen</i> sp.																														
<i>Ditylum brightwellii</i>																														
<i>Eucampia zoodiacus</i>																														
<i>Grammatophora</i> sp.																														
<i>Hemialus</i> sp.																														
<i>Lauderia annulata</i>																														
<i>Leptocylindrus danicus</i>																														
<i>Leptocylindrus minimus</i>																														
<i>Lucinophora</i> sp.																														
<i>Melosira</i> sp.																														
<i>Navicula</i> sp.																														
<i>Nitzschoid</i> sp.																														
<i>Pleurosigma Gyrosigma</i> sp.																														
<i>Rhizosolenia setigera</i>																														
<i>Rhizosolenia</i> sp.																														
<i>Rhizosolenia stillerii</i>																														
<i>Skeletonema costatum</i>																														
<i>Stephanopyxis</i> sp.																														
<i>Thalassionema</i> sp.																														
<i>Thalassiosira</i> sp.																														

Table 16 cont'd

date	23-Sep			30-Sep			7-Oct			14-Oct			21-Oct			28-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																		
<i>Achnanthes</i> sp.																		
<i>Amphiprora</i> <i>Tropidoneis</i>																		
<i>Asterionella</i> <i>japonica</i>															1			
<i>Bacteriastrium</i> sp.																		
<i>Biddulphia</i> sp.																		
<i>Campylosira</i> <i>Plagiogramma</i>																		
<i>Ceratella</i> sp.																		
<i>Chaetoceros</i> <i>concauicome</i>																		
<i>Chaetoceros</i> <i>convolutus</i>										1								
<i>Chaetoceros</i> sp.	2	1	1	1			1											
<i>Corethron</i> <i>hystrix</i>																	1	
<i>Coelodiscus</i> sp.												1						
<i>Dactylosolen</i> sp.																		
<i>Ditylum</i> <i>brightwellii</i>															1			
<i>Eucampia</i> <i>zoodiacus</i>															1			
<i>Grammatophora</i> sp.																		
<i>Hemialus</i> sp.																		
<i>Lauderia</i> <i>annulata</i>																		
<i>Leptocylindrus</i> <i>danicus</i>																		
<i>Leptocylindrus</i> <i>minimus</i>																		
<i>Licmophora</i> sp.																		
<i>Meiosira</i> sp.																		
<i>Navicula</i> sp.																		
<i>Nitzschoid</i> sp.																		
<i>Pleurosigma</i> <i>Gyrosigma</i> sp.																		
<i>Rhizosolenia</i> <i>setigera</i>																		
<i>Rhizosolenia</i> sp.																		
<i>Rhizosolenia</i> <i>stouterdhii</i>																		
<i>Skeletonema</i> <i>costatum</i>																		
<i>Stephanopyxis</i> sp.																		
<i>Thalassidroma</i> sp.																		
<i>Thalassiosira</i> sp.																		
<i>Thalassiosira</i> sp.																		

Table 17 : Dinoflagellates In Chancellor Channel samples.

Dinoflagellates	date		8-Jul		15-Jul		22-Jul		29-Jul		5-Aug		12-Aug		19-Aug		2-Sep		9-Sep		16-Sep		
	depth		1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
<i>Alexandrium</i> sp.																							
<i>Amphidinium</i> sp.																							
<i>Ceratium divicatum</i>																							
<i>Ceratium furca</i>																							
<i>Ceratium fusus</i>																							
<i>Ceratium lineatum</i>																							
<i>Ceratium pentagonum</i>																							
<i>Ceratium</i> sp.																							
<i>Cochlodinium</i> sp.																							
<i>Dinophysoid</i> sp.																							
<i>Gonyaulacoid</i> sp.																							
<i>Gymnodinium</i> sp.																							
<i>Gymnodinium galatheanum</i>																							
<i>Gyrodinium spirale</i> -type																							
<i>Heterocapsa triquetra</i>																							
<i>Noctiluca scintillans</i>																							
<i>Noctiluca</i> sp.																							
<i>Oxyrhis marina</i>																							
<i>Oxytoxum</i> sp.																							
<i>Polykrikos</i> sp.																							
<i>Prorocentrum gracile</i>																							
<i>Prorocentrum micans</i>																							
<i>Prorocentrum</i> sp.																							
<i>Protoperidinium</i> sp.																							
<i>Pyrrocystis lunula</i>																							
<i>Raphidophytes</i>																							
<i>Heterosigma akashiwo</i>																							

Table 17 cont'd

date/ depth	23-Sep			30-Sep			7-Oct			14-Oct			21-Oct			28-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																		
<i>Alexandrium</i> sp.																		
<i>Amphidinium</i> sp.										1								
<i>Ceratium divericatum</i>																		
<i>Ceratium furca</i>																		
<i>Ceratium fusus</i>																		
<i>Ceratium lineatum</i>																		
<i>Ceratium pentagonum</i>																		
<i>Ceratium</i> sp.																		
<i>Cochlodinium</i> sp.																		
<i>Dinophysis</i> sp.																		
<i>Gonyaulacoid</i> sp.				1														
<i>Gymnodinium</i> sp.							1	2	1	2	1	2	1	3	2	1	1	3
<i>Gymnodinium galatheanum</i>																		
<i>Gyrodinium spirale</i> -type																		
<i>Heterocapsa triquetra</i>																		
<i>Noctiluca scintillans</i>																		
<i>Noctiluca</i> sp.																		
<i>Oryzopsis marina</i>																		
<i>Oxytorum</i> sp.																		
<i>Polysira</i> sp.																		
<i>Prorocentrum gracile</i>																		
<i>Prorocentrum micans</i>																		
<i>Prorocentrum</i> sp.	1																	
<i>Prorocentrum</i> sp.																		
<i>Prorocentrum</i> sp.																		
<i>Pyrocystis lunula</i>																		
Raphidophytes																		
<i>Heterosigma akashiwo</i>																		

Table 18 cont'd

date depth	23-Sep			30-Sep			7-Oct			14-Oct			21-Oct			28-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																		
Cryptomonads																		
<i>Dictyocha speculum</i>	1																	
<i>Dinobryon balticum</i>																		
<i>Ebria tripartita</i>																		
Euglenoid																		
<i>Phaeocystis pouchetii</i>																		
Radiolarian																		
unid. Nanoflagellates	3	3	2	2	2	2	4	4	3	3	4	2	3	5	2	2	3	3
Zooplankton																		
Appendicularian																		
Ciliate	4	1	2				4	3	2	3	4	2	5	2	2	1	2	1
Copepod																		
Nauplius																		
Pluteus																		
Rotifer																		
Tintinnid																		
Zoea																		
other																		
Dominant Species/Group																		
name	<i>Thalassiosira</i> sp.																	
	<i>Skeletonema costatum</i>																	
	<i>Skeletonema costatum</i>																	
	<i>Skeletonema costatum</i>																	
count (cells/mL)	7	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		50	75	85	45	60	60	75	25	40	5	40	30	10	25	35	45	35
		20	5	5	30	0	0	5	30	20	45	5	25	10	25	10	15	25
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% constituent		10	10	5	25	40	40	2	10	10	15	10	20	25	15	35	25	20
		20	10	5	0	0	0	18	35	30	35	45	60	25	10	25	20	20
		1.5	1.5	1.5	1.0	1.0	1.0	3.0	1.0	1.5	1.5	1.0	1.5	1.0	1.0	1.0	1.0	1.0

Table 19 : Diatoms in Homfray Creek samples.

Diatoms	08-Jul			15-Jul			22-Jul			29-Jul			05-Aug			12-Aug			26-Aug			02-Sep			09-Sep			16-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
<i>Achnanthes</i> sp.																														
<i>Amphipora</i> <i>Tropidoneis</i>																														
<i>Asterionella japonica</i>																														
<i>Bacillaria</i> sp.																														
<i>Biddulphia</i> sp.																														
<i>Campylodiscus</i> <i>Plagiogramma</i>																														
<i>Ceratium</i> sp.																														
<i>Chaetoceros concavicornis</i>																														
<i>Chaetoceros convolutus</i>																														
<i>Chaetoceros</i> sp.																														
<i>Corethron hystrix</i>																														
<i>Coscinodiscus</i> sp.																														
<i>Dactylosolen</i> sp.																														
<i>Ditylum brightwellii</i>																														
<i>Eucampia zoodiacus</i>																														
<i>Grammatophora</i> sp.																														
<i>Hemidius</i> sp.																														
<i>Lauderia annulata</i>																														
<i>Leptocylindrus danicus</i>																														
<i>Leptocylindrus minimus</i>																														
<i>Licmophora</i> sp.																														
<i>Melosira</i> sp.																														
<i>Navicula</i> sp.																														
<i>Nitzschoid</i> sp.																														
<i>Pleurosigma Gyrodigma</i> sp.																														
<i>Rhizosolenia setigera</i>																														
<i>Rhizosolenia</i> sp.																														
<i>Rhizosolenia sticherthii</i>																														
<i>Skeletonema costatum</i>																														
<i>Stephanopyxis</i> sp.																														
<i>Thalassionema</i> sp.																														
<i>Thalassiosira</i> sp.																														

Table 19 cont'd

	date depth	07-Oct			14-Oct			21-Oct		
		1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms										
<i>Achnanthes</i> sp.										
<i>Amphiproral</i> <i>Tropidoneis</i>										
<i>Asterionella japonica</i>			1							
<i>Bacteriastrium</i> sp.										
<i>Biddulphia</i> sp.										
<i>Campylodiscus</i> <i>Plagiogramma</i>										
<i>Ceratella</i> sp.				1						
<i>Chaetoceros concavicornis</i>										
<i>Chaetoceros convolutus</i>				1						
<i>Chaetoceros</i> sp.		6	2	2		1				
<i>Corethron hystrix</i>			1	1			1			
<i>Coscinodiscus</i> sp.		1	1	1						
<i>Dactylosolen</i> sp.										
<i>Ditylum brightwellii</i>		1	1	1			1			
<i>Eucampia zoodiacus</i>		1		1						
<i>Grammatophora</i> sp.		1								
<i>Hemialus</i> sp.										
<i>Lauderia annulata</i>										
<i>Leptocylindrus danicus</i>		1	1	1						1
<i>Leptocylindrus minimus</i>										
<i>Licmophora</i> sp.										1
<i>Melosira</i> sp.										1
<i>Navicula</i> sp.										1
<i>Nitzschoid</i> sp.										
<i>Pleurosigma</i> <i>Gyrodigma</i> sp.		1								
<i>Rhizosolenia setigera</i>		1		1						
<i>Rhizosolenia</i> sp.										
<i>Rhizosolenia stelleri</i> <i>stilleri</i>										
<i>Skeletonema costatum</i>		1					1			
<i>Stephanopyxis</i> sp.										
<i>Thalassonema</i> sp.		1	1	1						
<i>Thalassosira</i> sp.										

Table 20 : Dinoflagellates in Homfray Creek samples.

Dinoflagellates	08-Jul			15-Jul			22-Jul			29-Jul			05-Aug			12-Aug			26-Aug			02-Sep			09-Sep			16-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
<i>Alexandrium</i> sp.																														
<i>Amphidinium</i> sp.																														
<i>Ceratium divicatum</i>																														
<i>Ceratium furca</i>																														
<i>Ceratium fusus</i>																														
<i>Ceratium lineatum</i>																														
<i>Ceratium pentagonum</i>																														
<i>Ceratium</i> sp.																														
<i>Cochlodinium</i> sp.																														
<i>Dinophysis</i> sp.																														
<i>Gonyaulax</i> sp.																														
<i>Gymnodinium</i> sp.																														
<i>Gymnodinium galatheanum</i>																														
<i>Gyrodinium spirale</i> -type																														
<i>Heterocapsa triquetra</i>																														
<i>Noctiluca scintillans</i>																														
<i>Noctiluca</i> sp.																														
<i>Oryzopsis marina</i>																														
<i>Oryzopsis</i> sp.																														
<i>Polykrikos</i> sp.																														
<i>Prorocentrum gracile</i>																														
<i>Prorocentrum micans</i>																														
<i>Prorocentrum minimum</i>																														
<i>Prorocentrum</i> sp.																														
<i>Protoperidinium</i> sp.																														
<i>Pyrocystis lunula</i>																														
Raphidophytes																														
<i>Heterosigma akashiwo</i>																														

Table 20 cont'd

	date		07-Oct			14-Oct			21-Oct		
	depth		1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates											
<i>Alexandrium</i> sp.											
<i>Amphidinium</i> sp.											
<i>Ceratium diventriculatum</i>											
<i>Ceratium furca</i>											
<i>Ceratium fusus</i>			1	1	1						
<i>Ceratium lineatum</i>											
<i>Ceratium pentagonum</i>											
<i>Ceratium</i> sp.											
<i>Cochlodinium</i> sp.											
<i>Dinophysiod</i> sp.											
<i>Gonyaulacoid</i> sp.				1							
<i>Gymnodinium</i> sp.			2	5	4		2		2		1
<i>Gymnodinium galatheanum</i>											
<i>Gyrodinium spirale</i> -type				1							
<i>Heterocapsa triquetra</i>											
<i>Noctiluca scintillans</i>											
<i>Noctiluca</i> sp.											
<i>Oxyrrhis marina</i>											
<i>Oxytoxum</i> sp.											
<i>Polykrikos</i> sp.											
<i>Prorocentrum gracile</i>											
<i>Prorocentrum micans</i>											
<i>Prorocentrum minimum</i>											
<i>Prorocentrum</i> sp.											
<i>Protoperidinioid</i> sp.			3	1							1
<i>Pycocystis lunula</i>											
Raphidophytes											
<i>Heterosigma akashiwo</i>											

Table 21 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Homfray Creek samples.

date	08-Jul			15-Jul			22-Jul			29-Jul			05-Aug			12-Aug			26-Aug			02-Sep			09-Sep			16-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m			
Other Flagellates																														
Zooplankton																														
Dominant Species/Group																														
count (cells/mL)																														
% constituent																														
																					</									

Table 21 cont'd

	date			07-Oct			14-Oct			21-Oct			
	depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates													
Cryptomonads													
<i>Dictyocha speculum</i>				1									
<i>Dinobryon bellicum</i>													
<i>Ebria tripartita</i>											1		
Euglenoid													
<i>Phaeocystis pouchetii</i>													
Radiolarian													
unind. Nanoflagellates		3	4	4	3	3	2	5					5
Zooplankton													
Appendicularian													
Ciliate		4	3	5	2	3	2	10					
Copepod													
Nauplius				1				1					
Pluteus													
Rotifer			1										
Tintinnid				2									
Zoea													
other													
Dominant Species/Group													
name		<i>Ceratum fusus</i>			<i>Coscinodiscus</i> sp.			<i>Corethron hystrix</i>			ciliates		
		35	100	100	60	45	65	100	100	100	100	100	100
count (cells/mL)													
% constituent													
Diatoms		60	45	65	0	5	60	5	60	5	15	30	
Dinoflagellates		35	40	20	0	20	0	5	10	15			
Raphidophytes		0	0	0	0	0	0	0	0	0	0	0	
Other Flagellates		1	1	1	35	20	20	40	30	20			
Zooplankton		4	14	14	65	55	20	50	45	35			
Biomass		3.5	2.0	3.0	1.0	1.0	1.0	1.5	1.5	1.5			

Table 22 : Diatoms in Glacial Creek samples.

Diatoms	01-Jul			08-Jul			15-Jul			22-Jul			29-Jul			05-Aug			12-Aug			19-Aug			26-Aug			02-Sep		
	date	depth		date	depth		date	depth		date	depth		date	depth		date	depth		date	depth		date	depth		date	depth		date	depth	
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacillaria paxillifera																														
Biddulphia sp.																														
Campylosira Plagiogramma																														
Cerataulina sp.																														
Chaetoceros concavicornis																														
Chaetoceros convolutus																														
Chaetoceros sp.																														
Corethron hystrix																														
Coscinodiscus sp.																														
Dactylosolen sp.																														
Ditylum brightwellii																														
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemiallus sp.																														
Lauderia annulata																														
Leptocylindrus danicus																														
Leptocylindrus minimus																														
Loricifera sp.																														
Melosira sp.																														
Navicula sp.																														
Nitzschoid sp.																														
Pleurosigma Gyrosigma sp.																														
Rhizosolenia setigera																														
Rhizosolenia sp.																														
Rhizosolenia stolliefthii																														
Skeletonema costatum																														
Stephanopyxis sp.																														
Thalassionema sp.																														
Thalassiosira sp.																														

Table 22 cont'd

date	16-Sep			23-Sep			30-Sep			07-Oct			
	depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms													
<i>Achnanthes</i> sp.													
<i>Amphiprora</i> <i>Tropidoneis</i>													
<i>Asterionella japonica</i>													
<i>Bacillaria</i> sp.													
<i>Biddulphia</i> sp.													
<i>Campylosira</i> <i>Plagiogramma</i>													
<i>Cerataulina</i> sp.							1						
<i>Chaetoceros concavicornis</i>													
<i>Chaetoceros convolutus</i>													
<i>Chaetoceros</i> sp.		3	1	1	2	3	1	4	1	2	2	2	2
<i>Corethron hystrix</i>													
<i>Coscinodiscus</i> sp.											1	1	1
<i>Dactylosolen</i> sp.											1	1	1
<i>Ditylum brightwellii</i>											1		
<i>Eucampia zoodiacus</i>				1		1							
<i>Grammatophora</i> sp.													
<i>Hemialus</i> sp.													
<i>Lauderia annulata</i>													
<i>Leptocylindrus danicus</i>													
<i>Leptocylindrus minimus</i>													1
<i>Leptophora</i> sp.						1	1						
<i>Melosira</i> sp.													
<i>Navicula</i> sp.													
<i>Nitzschoid</i> sp.				1		1	1		1		1		
<i>Pleurosigma</i> <i>Gyrodigma</i> sp.													
<i>Rhizosolenia setigera</i>	1												
<i>Rhizosolenia</i> sp.	1	1											
<i>Rhizosolenia stellerii</i>													
<i>Skeletonema costatum</i>	1	1	1	1	1					1	1	1	1
<i>Stephanopyxis</i> sp.													
<i>Thalassonema</i> sp.													
<i>Thalassiosira</i> sp.													
	3	1	1	2	3	3			1				1

Table 23 : Dinoflagellates in Glacial Creek samples.

date depth	01-Jul			08-Jul			15-Jul			22-Jul			29-Jul			05-Aug			11-Aug			19-Aug			26-Aug			02-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
<i>Alexandrium</i> sp.																														
<i>Amphidinium</i> sp.																														
<i>Ceratium divericatum</i>																														
<i>Ceratium furca</i>																														
<i>Ceratium fusus</i>	1	1	1		1	1																								
<i>Ceratium lineatum</i>																														
<i>Ceratium pentagonum</i>																														
<i>Ceratium</i> sp.																														
<i>Cochlodinium</i> sp.																														
<i>Dinophysis</i> sp.	1	2	1		1			2					1	1																
<i>Gonyaulacoid</i> sp.	1																													
<i>Gymnodinium</i> sp.	3	2	2	4	3	4		2	3	6	8	6	2	5	4	3	4	3	5	4	3	3	1	5	2					5
<i>Gymnodinium galatheanum</i>																														
<i>Gyrodinium spirale</i> -type																														
<i>Heterocapsa triquetra</i>	1	1	1																											
<i>Noctiluca scintillans</i>																														
<i>Noctiluca</i> sp.																														
<i>Oxyrhis marina</i>																														
<i>Oxytoxum</i> sp.																														
<i>Polykrikos</i> sp.																														
<i>Prorocentrum gracile</i>																														
<i>Prorocentrum micans</i>																														
<i>Prorocentrum minimum</i>																														
<i>Prorocentrum</i> sp.																														
<i>Protoperidinium</i> sp.	2	3		2	3	2			2	2			3	3	6	2	1	2	4	3	1		1	1	1	1	2			1
<i>Pyrocystis lunula</i>																														
Raphidophytes																														
<i>Heterosigma akashiwo</i>													1	1	1	1	1	1	1	1	1	1								

Table 23 cont'd

date depth	16-Sep			23-Sep			30-Sep			07-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates												
<i>Alexandrium</i> sp.	1	1	1									
<i>Amphidinium</i> sp.												
<i>Ceratium diversicatum</i>												
<i>Ceratium furca</i>												
<i>Ceratium fusus</i>	1	1	1				1	1	1	1	1	1
<i>Ceratium lineatum</i>												
<i>Ceratium pentagonum</i>												
<i>Ceratium</i> sp.												
<i>Cochlodinium</i> sp.												
<i>Dinophysis</i> sp.		1								2	1	
<i>Gonyaulacoid</i> sp.							1				1	
<i>Gymnodinium</i> sp.	5	6	2	6	8	1	1		1	8	3	6
<i>Gymnodinium galatheanum</i>												
<i>Gyrodinium spirale</i> -type	1	1	1	1	4	2			1			
<i>Heterocapsa triquetra</i>												
<i>Noctiluca scintillans</i>	1						1					
<i>Noctiluca</i> sp.												
<i>Oryzhis marina</i>	1											
<i>Oxytoxum</i> sp.			1	1								
<i>Polykrikos</i> sp.												
<i>Prorocentrum gracile</i>												
<i>Prorocentrum micans</i>												
<i>Prorocentrum minimum</i>	1	1	1	1	1	1						
<i>Prorocentrum</i> sp.												
<i>Protoperidinioid</i> sp.	1	2		5	2		2	2		2	1	1
<i>Pyrocystis lunula</i>												
Raphidophytes												
<i>Heterosigma akashiwo</i>										1		

Table 24 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Glacial Creek samples.

date depth	01-Jul			08-Jul			15-Jul			22-Jul			29-Jul			05-Aug			12-Aug			19-Aug			26-Aug			02-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
<i>Dictyocha speculum</i>				1						1	1	1	1	1	1										1	1	1			
<i>Dinobryon ballicum</i>				1	1	1																								
<i>Ebria triparlita</i>											2	4																		
Euglenoid																														
<i>Phaeocystis pouchetii</i>																														
Radiolarian																														
unid. Nanoflagellates	5	4	4	1	2	2				2	4	4	6	5	3	4	4	4	4	4	4	3	2	2	2	3	3			2
Zooplankton																														
Appendicularian																														
Ciliate	5	4	3	1	5	5				4	4	2	7	6																5
Copepod																														
Nauplius				1																										
Pluteus																														
Rotifer																														
Tintinid										1	2																			
Zoea																														
other																														
Dominant Species/Group																														
name																														
count (cells/mL)																														
% constituent																														
Diatoms	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dinoflagellates	25	10	5	70	30	45	50	50	55	75	60	70	80	60	50	80	85	74	55	70	70	75	30	40	4	5	10	5	5	5
Raphidophytes	35	60	55	15	15	20	30	30	20	15	20	15	5	21	40	5	5	10	25	23	24	23	59	44	91	90	80	40	40	40
Other Flagellates	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	8	3	8	4	4	0	0	0	0	0	0	0	0	0
Zooplankton	30	10	20	10	40	20	5	5	5	5	10	5	5	3	5	2	2	1	2	1	2	1	1	1	1	1	1	2	30	30
Biomass	10	20	20	5	15	15	15	15	20	5	10	10	5	15	5	5	5	5	10	2	0	1	10	15	4	8	25	25	30	30
														3.0	3.5	2.5	3.5	4.0	3.0	3.0	3.5	3.5	3.5	3.0	3.5	3.0	2.5	3.0	3.0	3.0

Table 24 cont'd

[illegible]

Table 25 : Diatoms in Prett' Girl Cove samples.

date	14-Jun			21-Jun			28-Jun			05-Jul			12-Jul			19-Jul			26-Jul			02-Aug			09-Aug			16-Aug		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m			
Diatoms																														
<i>Achnanthes</i> sp.																														
<i>Amphipora</i> <i>Tropidoneis</i>																														
<i>Asterionella japonica</i>																														
<i>Bacteriastrium</i> sp.																														
<i>Eidduphia</i> sp.																											1			
<i>Campylosira</i> <i>Plagiogramma</i>																														
<i>Ceraulalia</i> sp.																		1												
<i>Chaetoceros concavicornis</i>																														
<i>Chaetoceros convolutus</i>																														
<i>Chaetoceros</i> sp.																									1		1			
<i>Corethron hystrix</i>																														
<i>Coscinodiscus</i> sp.																														
<i>Dactylosolen</i> sp.																														
<i>Ditylum brightwellii</i>	1	1	1																						1	1	1			
<i>Eucampia zoodiscus</i>																											1			
<i>Grammatophora</i> sp.																														
<i>Hemialus</i> sp.																														
<i>Leuderia annulata</i>																														
<i>Leptocylindrus danicus</i>																											1			
<i>Leptocylindrus minimus</i>																											1			
<i>Lernophora</i> sp.																											1			
<i>Melosira</i> sp.																											1			
<i>Navicula</i> sp.																											1			
<i>Nitzschoid</i> sp.																											2			
<i>Pleurosigma Gyrosigma</i> sp.																														
<i>Rhizosolenia setigera</i>																														
<i>Rhizosolenia</i> sp.																											1			
<i>Rhizosolenia stilleri</i> <i>thil</i>																											1			
<i>Skeletonema costatum</i>	1																										1			
<i>Stephanopyxis</i> sp.																											1			
<i>Thalassionema</i> sp.																											1			
<i>Thalassiosira</i> sp.																											1			

Table 25 cont'd

date depth	23-Aug			30-Aug			06-Sep			13-Sep			20-Sep			27-Sep			04-Oct			11-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																								
<i>Achnanthes</i> sp.																								
<i>Amphiprora</i> <i>Tropidoneis</i>																								
<i>Asterionella japonica</i>																								
<i>Bacillaria</i> sp.																								
<i>Biddulphia</i> sp.																								
<i>Campylosira</i> <i>Plagiogramma</i>																								
<i>Cerataulina</i> sp.																								
<i>Chaetoceros concavicornis</i>																								
<i>Chaetoceros convolutus</i>	2			2	1	1							1	1		2			6	5	2			
<i>Chaetoceros</i> sp.																								
<i>Corethron lysteri</i>																								
<i>Coscinodiscus</i> sp.																								
<i>Dactylosolen</i> sp.																								
<i>Ditylum brightwellii</i>	1	1	1																					
<i>Eucampia zoodiacus</i>																								
<i>Grammatophora</i> sp.																								
<i>Hemialus</i> sp.																								
<i>Laudenia annulata</i>																								
<i>Leptocylindrus danicus</i>	1		1										1	1		1			1					
<i>Leptocylindrus minimus</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Licmophora</i> sp.																								
<i>Melosira</i> sp.						1																		
<i>Navicula</i> sp.																								
<i>Nitzschoid</i> sp.	1	1					1						1	1		1			2	1	1	1	1	1
<i>Pleurosigma</i> <i>Gyrosigma</i> sp.																								
<i>Rhizosolenia setigera</i>																								
<i>Rhizosolenia</i> sp.	1	1																						
<i>Rhizosolenia stelleri</i>																								
<i>Skeletonema costatum</i>			1										1	1	1	1	1	1	1	1	1	1	1	1
<i>Stephanopyxis</i> sp.																								
<i>Thalassionema</i> sp.	1	1	1				1	1	1	1	1	1							1	2	1			2
<i>Thalassiosira</i> sp.																								

Table 26 : Dinoflagellates in Pretty Girl Cove samples.

date	14-Jun			21-Jun			28-Jun			05-Jul			12-Jul			19-Jul			26-Jul			02-Aug			09-Aug			16-Aug		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
<i>Alexandrium</i> sp.																														
<i>Amphidinium</i> sp.																														
<i>Ceratium divericatum</i>																														
<i>Ceratium furca</i>																														
<i>Ceratium fusus</i>																														
<i>Ceratium lineatum</i>																														
<i>Ceratium pentagonum</i>																														
<i>Ceratium</i> sp.																														
<i>Cochlodinium</i> sp.																														
<i>Cochlodinium</i> sp. 99																														
<i>Dinophysioid</i> sp.																														
<i>Gonyaulacoid</i> sp.																														
<i>Gymnodinium</i> sp.																														
<i>Gymnodinium galatheanum</i>																														
<i>Gyrodinium spirale</i> -type																														
<i>Heterocapsa triquetra</i>																														
<i>Noctiluca scintillans</i>																														
<i>Noctiluca</i> sp.																														
<i>Orymbis marina</i>																														
<i>Oxytoxum</i> sp.																														
<i>Polykrikos</i> sp.																														
<i>Prorocentrum gracile</i>																														
<i>Prorocentrum micans</i>																														
<i>Prorocentrum</i> sp.																														
<i>Protoperidinioid</i> sp.																														
<i>Pyrocystis lunula</i>																														
Raphidophytes																														
<i>Heterosigma akashiwo</i>																														

Table 26 cont'd

date	23-Aug			30-Aug			06-Sep			13-Sep			20-Sep			27-Sep			04-Oct			11-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																								
<i>Alexandrium</i> sp.																								
<i>Amphidinium</i> sp.																								
<i>Ceratium divicatum</i>																								
<i>Ceratium furca</i>																								
<i>Ceratium fusus</i>																								
<i>Ceratium lineatum</i>																								
<i>Ceratium pentagonum</i>																								
<i>Ceratium</i> sp.																								
<i>Cochlodinium</i> sp.																								
<i>Cochlodinium</i> sp. 99																								
<i>Dinophysis</i> sp.																								
<i>Gonyaulacoid</i> sp.																								
<i>Gymnodinium</i> sp.																								
<i>Gymnodinium galatheanum</i>																								
<i>Gyrodinium spirale</i> -type																								
<i>Heterocapsa triquetra</i>																								
<i>Nociluca scintillans</i>																								
<i>Nociluca</i> sp.																								
<i>Oxyrhina marina</i>																								
<i>Oxyrhina</i> sp.																								
<i>Polykrikos</i> sp.																								
<i>Prorocentrum gracile</i>																								
<i>Prorocentrum micans</i>																								
<i>Prorocentrum</i> sp.																								
<i>Protoperidinium</i> sp.																								
<i>Pyrocystis lunula</i>																								
Raphidophytes																								
<i>Heliosigma akashiwo</i>																								

Table 27 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Pretty Girl Cove samples.

date	14-Jun			21-Jun			28-Jun			05-Jul			12-Jul			19-Jul			26-Jul			02-Aug			09-Aug			16-Aug		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m			
Other Flagellates																														
Zooplankton																														
Dominant Species/Group																														
count (cells/mL)																														
% constituent																														
Biomass																														

Table 27 cont'd

date depth	23-Aug			30-Aug			06-Sep			13-Sep			20-Sep			27-Sep			04-Oct			11-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																								
Cryptomonads																								
<i>Dictyocha speculum</i>							1												1	1	1			
<i>Dinobryon bellicum</i>	1																							
<i>Etnia triparita</i>													1	1										
Euglenoid	1																							
<i>Phaeocystis pouchetii</i>																								
Radiolarian																								
unid. Nanoflagellates	5	1	2	7	3	2	6	6	4	4	6	4	4	3	2	4	2	3	5	4	3	3	4	3
Zooplankton																								
Appendicularian																								
Ciliate	8	5	1	5	6	4	9	8	6	3	9	3	3	4	5	8	9	4	12	8	2	6	5	3
Copepod																								
Nauplius																			1			1		1
Pluteus																								
Rotifer	1																							
Tintinnid	2	1		1	1	2				1	1	1	1	1	1	2	2	1	2			2		
Zoea																								
other																								
Dominant Species/Group																								
name																								
	<i>Leptocylindrus minimus</i>	7300																						
count (cells/mL)																								
% constituent																								
Diatoms	69	39	49	35	5	34	22	5	5	4	5	5	5	5	5	5	15	0	55	45	55	5	20	25
Dinoflagellates	20	30	40	50	78	40	35	78	73	90	85	85	85	85	85	85	60	75	20	30	30	80	55	50
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	5	2	1	3	2	2	1	3	3	2	2	1	1	1	1	3	3	3	1	2	2
Zooplankton	10	30	10	10	15	25	30	15	20	23	5	7	6	8	9	24	24	21	22	12	14	23	23	23
Biomass	4.0	3.0	2.0	4.0	3.0	2.5	3.0	3.0	2.5	3.5	4.0	3.0	4.0	4.0	3.5	4.0	3.0	2.0	3.5	2.5	2.0	3.5	3.0	2.5

[illegible]

Table 28 cont'd.

date/ depth	30-Aug			06-Sep			13-Sep			20-Sep			27-Sep			04-Oct			11-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
<i>Achnanthes</i> sp.																					
<i>Amphiprora</i> <i>Tropidoneis</i>																					
<i>Asterionella</i> <i>japonica</i>																					
<i>Bacteriasira</i> sp.																					
<i>Biddulphia</i> sp.																					
<i>Campylosira</i> <i>Plagiogramma</i>																					
<i>Ceraulalina</i> sp.																					
<i>Chaetoceros</i> <i>concalvicorne</i>																					
<i>Chaetoceros</i> <i>convolutus</i>																					
<i>Chaetoceros</i> sp.																					
<i>Corethron</i> <i>hystrix</i>																					
<i>Coscinodiscus</i> sp.																					
<i>Dactylosolen</i> sp.																					
<i>Dietylum</i> <i>brighwellii</i>																					
<i>Eucampia</i> <i>zoodiacus</i>																					
<i>Grammatophora</i> sp.																					
<i>Hemialus</i> sp.																					
<i>Lauderia</i> <i>annulata</i>																					
<i>Leptocylindrus</i> <i>danicus</i>																					
<i>Leptocylindrus</i> <i>minimus</i>																					
<i>Licmophora</i> sp.																					
<i>Melosira</i> sp.																					
<i>Navicula</i> sp.																					
<i>Nitzschiod</i> sp.																					
<i>Pleurosigma</i> <i>Gyrosigma</i> sp.																					
<i>Rhizosolenia</i> <i>setigera</i>																					
<i>Rhizosolenia</i> sp.																					
<i>Rhizosolenia</i> <i>stilleri</i> <i>stilleri</i>																					
<i>Skeletonema</i> <i>costatum</i>																					
<i>Stephanopyxis</i> sp.																					
<i>Thalassionema</i> sp.																					
<i>Thalassiosira</i> sp.																					

Table 29 : Dinoflagellates in Bacchante Bay samples.

date	21-Jun			28-Jun			05-Jul			12-Jul			19-Jul			26-Jul			02-Aug			09-Aug			16-Aug			23-Aug		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
<i>Alexandrium</i> sp.																														
<i>Amphidinium</i> sp.																														
<i>Ceratium divericatum</i>																														
<i>Ceratium furca</i>																														
<i>Ceratium fusus</i>																														
<i>Ceratium lineatum</i>																														
<i>Ceratium pentagonum</i>																														
<i>Ceratium</i> sp.																														
<i>Cochlodinium</i> sp.																														
<i>Dinophysis</i> sp.	2			1	1		1	2	1	1	3		1	1	2				3	1	1	3	3			1	2		1	1
<i>Gonyaulacoid</i> sp.																														
<i>Gymnodinium</i> sp.	1	2		4	2	2	5	1	1	5	7	3	7	5	3	6	7	3	10	5	5	8	8	7	6	3	1	6	3	
<i>Gymnodinium galatheanum</i>																														
<i>Gyrodinium spirale</i> -type																														
<i>Helicodinium triquetra</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1	2	2	1	2	1	2	1	
<i>Helicodinium triquetra</i>																														
<i>Noctiluca scintillans</i>																														
<i>Noctiluca</i> sp.																														
<i>Noctiluca</i> sp.																														
<i>Oxyrrhis marina</i>	1	1		1	1					1	1	1	1	1					1	1	1	1	1	1	1	1	1	1	1	1
<i>Oxyrrhis</i> sp.																														
<i>Polykrikos</i> sp.																														
<i>Prorocentrum gracile</i>																														
<i>Prorocentrum micans</i>																														
<i>Prorocentrum</i> sp.																														
<i>Protoperidinium</i> sp.																														
<i>Pyrocystis lunula</i>	2	3	1	3	3	1	6	3	2	7	5	5	5	6	3	7	4	6	5	3	1	5	4	5	4	2	6	6		
Raphidophytes																														
<i>Heterosigma akashiwo</i>																														

Table 29 cont'd

date depth	30-Aug			06-Sep			13-Sep			20-Sep			27-Sep			04-Oct			11-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																					
<i>Alexandrium</i> sp.																					
<i>Amphidinium</i> sp.	1																				
<i>Ceratium divericatum</i>																					
<i>Ceratium furca</i>																					
<i>Ceratium fusus</i>																					
<i>Ceratium lineatum</i>																				1	
<i>Ceratium pentagonum</i>																					
<i>Ceratium</i> sp.																					
<i>Cochlodinium</i> sp.						1							1								
<i>Dinophysis</i> sp.	3			4									3			2			1		
<i>Gonyaulax</i> sp.																					
<i>Gymnodinium</i> sp.	10			5	7	5	7	9	7	4	8	6	6	3	3	8	6	5	9	7	
<i>Gymnodinium galatheanum</i>																					
<i>Gyrodinium spirale</i> type	1	1	3	1	1	1	1	1	1	1	2	1	3	1	2	4	2	1	2		
<i>Heterocapsa triquetra</i>	1			1	1	1	1				1		1		1	1					
<i>Noctiluca scintillans</i>																					
<i>Noctiluca</i> sp.																					
<i>Oxyrhis marina</i>				1	1	1	1				1		1								
<i>Oryzium</i> sp.				1			1	1			1		1			1					
<i>Polkirkia</i> sp.																					
<i>Prorocentrum gracile</i>	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1					
<i>Prorocentrum micans</i>				1			1	1			1		1								
<i>Prorocentrum</i> sp.																					
<i>Protoperidinium</i> sp.	9	3	5	4	3	7	1	2	8	4	3	5	2	1	3	1	2	3			
<i>Pyrrocystis lunula</i>																					
Raphidophytes																					
<i>Heterosigma akashiwo</i>											1					1	1				

Table 30 cont'd

[illegible]

Table 31 : Diatoms in Shelter Channel samples.

date	14-Jun			21-Jun			28-Jun			05-Jul			12-Jul			19-Jul			26-Jul			02-Aug			09-Aug			16-Aug		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m			
Diatoms																														
<i>Achnanthes</i> sp.																														
<i>Amphipora</i> <i>Tropidoneis</i>																														
<i>Asterionella japonica</i>																														
<i>Bacteriasium</i> sp.																														
<i>Biddulphia</i> sp.																														
<i>Campylosira</i> <i>Plagiogramma</i>																														
<i>Ceratalina</i> sp.	1																				1									
<i>Chaetoceros concavicornis</i>																														
<i>Chaetoceros convolutus</i>																														
<i>Chaetoceros</i> sp.	4	2	2	5	2	1	5	3	3	4	4	3	5	4	4	1	1	1	7	9	6	8	5	5	3	1	3	2	3	
<i>Corethron hystrix</i>																														
<i>Coscinodiscus</i> sp.											1																			
<i>Dactylosolen</i> sp.	1			1			1	1																						
<i>Dityum brightwellii</i>											1		1	1					1	1	1	1	1	1	1	1	1	1		
<i>Eucampia zoodiscus</i>																														
<i>Grammatophora</i> sp.																														
<i>Henielus</i> sp.																														
<i>Lauderia annulata</i>																														
<i>Leptocylindrus danicus</i>																														
<i>Leptocylindrus minimus</i>																														
<i>Licmophora</i> sp.																														
<i>Melosira</i> sp.																														
<i>Navicula</i> sp.																														
<i>Nitzschoid</i> sp.	1						1	1	2	2	3	2	1	2	3	3	1	1	1	2	3	2	3	2	2	2	2	2		
<i>Pleurosigma</i> <i>Gyrosigma</i> sp.																														
<i>Rhizosolenia setigera</i>																														
<i>Rhizosolenia</i> sp.																														
<i>Rhizosolenia stollerfothii</i>																														
<i>Skeletonema costatum</i>	1						1	1																						
<i>Stephanopyxis</i> sp.																														
<i>Thalassionema</i> sp.																														
<i>Thalassiosira</i> sp.																														

Table 31 cont'd

date depth	23-Aug			30-Aug			06-Sep			13-Sep			20-Sep			27-Sep			04-Oct			11-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																								
<i>Achnanthes</i> sp.																								
<i>Amphipora</i> <i>Tropidoneis</i>																								
<i>Asterionella japonica</i>																								
<i>Bacterastrum</i> sp.																								
<i>Biddulphia</i> sp.																								
<i>Campylosira</i> <i>Plagiogramma</i>																								
<i>Cerataulina</i> sp.																								
<i>Chaetoceros concavicornis</i>																								
<i>Chaetoceros convolutus</i>																								
<i>Chaetoceros</i> sp.	1	2	2	2		2																		
<i>Corethron hystrix</i>																								
<i>Coscinodiscus</i> sp.																								
<i>Dactylosolen</i> sp.																								
<i>Ditylum brightwellii</i>																								
<i>Eucampia zoodiacus</i>																								
<i>Grammatophora</i> sp.																								
<i>Hemiallus</i> sp.																								
<i>Lauderia annulata</i>																								
<i>Leptocylindrus denicus</i>																								
<i>Leptocylindrus minimus</i>	1	1	1	1		1																		
<i>Licmophora</i> sp.																								
<i>Melosira</i> sp.																								
<i>Navicula</i> sp.																								
<i>Nitzschia</i> sp.	1	1	1																					
<i>Pleurosigma Gyrosigma</i> sp.																								
<i>Rhizosolenia setigera</i>																								
<i>Rhizosolenia</i> sp.																								
<i>Rhizosolenia stelleri</i>																								
<i>Skeletonema costatum</i>	1																							
<i>Stephanopyxis</i> sp.																								
<i>Thalassionema</i> sp.																								
<i>Thalassiosira</i> sp.	1	2	1			1																		

Table 32 : Dinoflagellates in Shelter Channel samples.

date depth	14-Jun			21-Jun			28-Jun			05-Jul			12-Jul			19-Jul			26-Jul			02-Aug			09-Aug			16-Aug		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
<i>Alexandrium</i> sp.																														
<i>Amphidinium</i> sp.																														
<i>Ceratium divorticatum</i>																														
<i>Ceratium furca</i>																														
<i>Ceratium fusus</i>																														
<i>Ceratium lineatum</i>																														
<i>Ceratium pentagonum</i>																														
<i>Ceratium</i> sp.																														
<i>Cochlodinium</i> sp.																														
<i>Cochlodinium</i> sp. 99																														
<i>Dinophysioid</i> sp.																														
<i>Gonyaulacoid</i> sp.																														
<i>Gymnodinium</i> sp.																														
<i>Gymnodinium galatheseum</i>																														
<i>Gyrodinium spirale</i> -type																														
<i>Heterocapsa triquetra</i>																														
<i>Noctiluca scintillans</i>																														
<i>Noctiluca</i> sp.																														
<i>Oxyrhis marina</i>																														
<i>Oxytoxum</i> sp.																														
<i>Polytrikos</i> sp.																														
<i>Prorocentrum gracile</i>																														
<i>Prorocentrum micans</i>																														
<i>Prorocentrum</i> sp.																														
<i>Protoperidinium</i> sp.																														
<i>Pyrocystis lunula</i>																														
Raphidophytes																														
<i>Heterosigma akashiwo</i>																														

Table 32 cont'd

date depth	23-Aug			30-Aug			06-Sep			13-Sep			20-Sep			27-Sep			04-Oct			11-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																								
<i>Alexandrium</i> sp.																			1	1				
<i>Amphidinium</i> sp.				1																				
<i>Ceratium divercatum</i>																								
<i>Ceratium furca</i>																			1					
<i>Ceratium fusus</i>																			1					
<i>Ceratium lineatum</i>										1									1					1
<i>Ceratium pentagonum</i>																								
<i>Ceratium</i> sp.																								
<i>Cochlodinium</i> sp.																								
<i>Cochlodinium</i> sp. 99	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1					1
<i>Dinophysis</i> sp.	1			2			1		1										3				3	
<i>Gonyaulax</i> sp.																								
<i>Gymnodinium</i> sp.	4	6	2	8			5	6	6	7	5	4	3	3	4	6	5	5	6	5	6	7	3	7
Gymnodinium galatheaum																								
<i>Gymnodinium spirale</i> -type	1	2		2			2	1	2	1	1	1	2	1	2	1	2	2	1	2	2	2	2	
<i>Heterocapsa triquetra</i>	1			1			1	1	1	1						1	1	1				1		
Noctiluca scintillans																								
<i>Noctiluca</i> sp.																								
<i>Oxyrrhis marina</i>	1	1	1	1			1																	
<i>Oxytoxum</i> sp.	1	1	1	1									1									1		
<i>Polykrikos</i> sp.																								
<i>Prorocentrum gracile</i>	1	1	1	1			1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	
<i>Prorocentrum micans</i>																								
<i>Prorocentrum</i> sp.																								
<i>Protoperidinium</i> sp.	4	5	3	6			1	3	1	4	3		1	2	1	3			3	5	3	5	4	
<i>Pycnostis lunula</i>																								
Raphidophytes																								
<i>Heterosigma akashiwo</i>																								

Table 33 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Shelter Channel samples.

date	depth	14-Jun			21-Jun			28-Jun			05-Jul			12-Jul			19-Jul			26-Jul			02-Aug			09-Aug			16-Aug								
		1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m									
Other Flagellates																																					
	Cryptomonads				1									1	2	2																					
	<i>Dictyocha speculum</i>				1	1	1							1																							
	<i>Dinobryon bellicum</i>													1																							
	<i>Ebria triperita</i>																																				
	Euglenoid				1												1	1																			
	<i>Phaeocystis pouchetii</i>																																				
	Radiolarian																																				
	unind. Nanoflagellates	1	2		4	5	4	5	6	4	5	5	4	3	2	2	5	4	6	5	5	5	6	6	4	4	4	3	6								
Zooplankton																																					
	Appendicularian																																				
	Ciliate	2	3	1	6	3	2	4	4	1	4	4	2	5	6	4	7	7	4	8	6	2	10	7	9	6	8	2	8								
	Copepod																												5								
	Nauplius																												4								
	Ptuleus																												1								
	Rotifer																												1								
	Tintinnid				1	1					3						2	3	2	3			1		1	3	1		3								
	Zoea																																				
	other																																				
Dominant Species/Group																																					
name		<i>Chaetoceros</i> spp.			nanoflagellates			<i>Chaetoceros</i> spp.			<i>Ch. spp</i> & <i>S. costatum</i>			diatoms			<i>Prorocentrum gracile</i>			<i>Chaetoceros</i> spp.			<i>Ditylum brightwellii</i>			<i>Cochlodinium</i> sp. 99			dinoflagellates			<i>Ditylum brightwellii</i>					
		count (cells/mL)			10000			2000			4000			750			80			520			~40			70			~200			~30					
		100			100			100			100			100			100			100			100			100			100			100					
		50			20			4			5			1			0			5			70			45			35			15			50		
	Diatoms	29			30			50			5			1			0			25			20			40			30			40			65		
	Dinoflagellates	0			0			0			0			0			0			0			0			0			0			0			0		
	Raphidophytes	1			0			2			45			90			89			5			15			2			2			2			1		
	Other Flagellates	20			20			28			10			4			10			5			40			53			5			14			14		
	Zooplankton	20			20			28			10			4			10			15			5			15			15			3			3		
	Biomass	20			20			28			10			4			10			15			5			15			15			3			3		

Table 33 cont'd

[illegible]

Table 34 : Diatoms in Michaelson Rocks samples.

date/ depth	Jun-23			Jun-30			Jul-07			Jul-14			Jul-21			Jul-28			Aug-04			Aug-11			Aug-18			Aug-25		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m			
Diatoms																														
<i>Achnanthes</i> sp.																														
<i>Amphiproral Tropidoneis</i>																														
<i>Asterionella japonica</i>																														
<i>Bacteriastrium</i> sp.																														
<i>Biddulphia</i> sp.																														
<i>Campylosira</i> /Plagiogramma																														
<i>Ceratalina</i> sp.																														
<i>Chaetoceros concavicornis</i>																														
<i>Chaetoceros convolutus</i>																														
<i>Chaetoceros</i> sp.	5	2	5	4	5	4	6	5	4	4	3	6	3	3	1	1			7	6	5	6	6	4	6	5	1	6	4	
<i>Corethron hystrix</i>																														
<i>Coscinodiscus</i> sp.																														
<i>Dactylosolen</i> sp.																														
<i>Ditylum brightwellii</i>	1			1	1	1	1	1	1	1	1	1																		
<i>Eucampia zoodiscus</i>																														
<i>Grammatophora</i> sp.																														
<i>Henielus</i> sp.																														
<i>Lauderia annulata</i>																														
<i>Leptocylindrus danicus</i>																														
<i>Leptocylindrus minimus</i>																														
<i>Lernophora</i> sp.																														
<i>Melosira</i> sp.																														
<i>Navicula</i> sp.																														
<i>Nitzschoid</i> sp.																														
<i>Pleurosigma</i> /Gyrosigma sp.																														
<i>Rhizosolenia setigera</i>	1																													
<i>Rhizosolenia</i> sp.																														
<i>Rhizosolenia stollerfothii</i>																														
<i>Skeletonema costatum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
<i>Stephanopyxis</i> sp.																														
<i>Thalassionema</i> sp.																														
<i>Thalassiosira</i> sp.	1	1	1	1	2	3	2	1	2	1	2	1	2	2	1	1	1	2	3	3	2	3	2	3	2	2	1	1	2	

Table 34 cont'd

date depth	Sep-01			Sep-08			Sep-15			Sep-22			Sep-29			Oct-06			Oct-13			Oct-20			Oct-26		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																											
<i>Achnanthes</i> sp.																											
<i>Amphiprora</i> <i>Tropidoneis</i>																											
<i>Asterionella</i> <i>japonica</i>																											
<i>Bacteriastrium</i> sp.																											
<i>Biddulphia</i> sp.																											
<i>Campylosira</i> <i>Plagiogramma</i>																											
<i>Cerataulina</i> sp.																											
<i>Chaetoceros</i> <i>concalicorne</i>																											
<i>Chaetoceros</i> <i>convolutus</i>																											
<i>Chaetoceros</i> sp.	1									5	3	3	1														
<i>Corethron</i> <i>hystrix</i>																											
<i>Coscinodiscus</i> sp.																											
<i>Diacyclops</i> sp.																											
<i>Ditylum</i> <i>brightwellii</i>																											
<i>Eucampia</i> <i>roodiacus</i>																											
<i>Grammatophora</i> sp.																											
<i>Hemialus</i> sp.																											
<i>Lauderia</i> <i>annulata</i>																											
<i>Leptocylindrus</i> <i>danicus</i>																											
<i>Leptocylindrus</i> <i>minimus</i>																											
<i>Limnophora</i> sp.																											
<i>Melosira</i> sp.																											
<i>Navicula</i> sp.																											
<i>Nitzschoid</i> sp.																											
<i>Pleurosigma</i> <i>Gyrosigma</i> sp.																											
<i>Rhizosolenia</i> <i>setigera</i>																											
<i>Rhizosolenia</i> sp.																											
<i>Rhizosolenia</i> <i>stolterfothii</i>										2	1	1	1														
<i>Skeletonema</i> <i>costatum</i>																											
<i>Stephanopyxis</i> sp.										1	1	1															
<i>Thalassionema</i> sp.																											
<i>Thalassiosira</i> sp.																											

Table 35 : Dinoflagellates in Michaelson Rocks samples.

date depth	Jun-23			Jun-30			Jul-07			Jul-14			Jul-21			Jul-28			Aug-04			Aug-11			Aug-18			Aug-25		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m			
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divercatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																														
Dinophysioid sp.																														
Gonyaulacoid sp.																														
Gymnodinium sp.	1	2																												
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1	1																												
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctiluroid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.	1																													
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	2	4	5																											
Pyrrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 35 cont'd

date depth	Sep-01			Sep-08			Sep-15			Sep-22			Sep-29			Oct-06			Oct-13			Oct-20			Oct-26		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																											
<i>Alexandrium</i> sp.													1														
<i>Amphidinium</i> sp.			1																								
<i>Ceratium diversicatum</i>																											
<i>Ceratium furca</i>																											
<i>Ceratium fusus</i>																											
<i>Ceratium lineatum</i>	1	1	1	1			1			1	1	1							1								
<i>Ceratium perfragorum</i>																											
<i>Ceratium</i> sp.																											
<i>Cochlodinium</i> sp.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Dinophysis</i> sp.	1	1	3	3	3	3	1	2	2	1	2																
<i>Gonyaulax</i> sp.	1	1																									
<i>Gymnodinium</i> sp.	4	7	5	3	1	1	5	6	5	6	3	6	1	3	5	6	5	5	2	3	2	3	3	2	3	3	1
<i>Gymnodinium galatheaum</i>																											
<i>Gyrodinium spirale</i> type		2	1	1				1	1			3	1	1	3	2	3		2	1		1	1				
<i>Heterocapsa triquetra</i>							1			1	1																
<i>Noctiluca acinillans</i>																											
<i>Noctiluca</i> sp.																											
<i>Oryzopsis marina</i>																											
<i>Oryzopsis</i> sp.	1		1	1	1	1	1	1	1	1	1	1			1										1		
<i>Pyramixis</i> sp.																											
<i>Prorocentrum gracile</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Prorocentrum micans</i>																											
<i>Prorocentrum</i> sp.																											
<i>Prorocentrum</i> sp.	4	6	3	3	3	3	6	5	5	3	6	3	2	2	3	3			1			1				1	
<i>Pyrocystis lunula</i>																											
Raphidophytes																											
<i>Heterosigma albidum</i>			1				1	1	1	1	1	1															1

Table 36 cont'd

[illegible]

Table 37 : Diatoms in Thorpe Point samples.

date	Jun-23			Jun-30			Jul-07			Jul-14			Jul-21			Jul-28			Aug-04			Aug-11			Aug-18			Aug-25		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m			
Diatoms																														
<i>Achnanthes</i> sp.																														
<i>Amphiprora</i> <i>Tropidonella</i>																														
<i>Asterionella</i> <i>japonica</i>																														
<i>Bacterianthus</i> sp.																														
<i>Biddulphia</i> sp.	1																					1								
<i>Campylodiscus</i> <i>Plagiogramma</i>																														
<i>Ceratolus</i> sp.																														
<i>Chaetoceros concavicornis</i>																														
<i>Chaetoceros convolutus</i>																														
<i>Chaetoceros</i> sp.	5	4	4	5	4	1	4	5	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
<i>Corethron hystrix</i>																														
<i>Coscinodiscus</i> sp.																														
<i>Dactylosira</i> sp.																														
<i>Dityum brightwellii</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
<i>Eucampia zoodiacus</i>																														
<i>Grammatophora</i> sp.	1																													
<i>Heimulus</i> sp.																														
<i>Leuderia annulata</i>	1	1	1																											
<i>Leptocylindrus danicus</i>																														
<i>Leptocylindrus minimus</i>																														
<i>Leptocylindrus</i> sp.																														
<i>Leptocylindrus</i> sp.																														
<i>Leptocylindrus</i> sp.																														
<i>Leptocylindrus</i> sp.																														
<i>Leptocylindrus</i> sp.																														
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<i>Leptocylindrus</i> sp.																														
<i>Leptocylindrus</i> sp.																														
<i>Leptocylindrus</i> sp.																														
<i>Leptocylindrus</i> sp.																														
<i>Leptocylindrus</i> sp.																														

Table 37 cont'd

date depth	Sep-01			Sep-08			Sep-15			Sep-22			Sep-29			Oct-06			Oct-13			Oct-20			Oct-26		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																											
<i>Achnanthes</i> sp.																											
<i>Amphiprora</i> <i>Tropidoneis</i>																											
<i>Asterionella japonica</i>																											
<i>Bacillaria</i> sp.																											
<i>Biddulphia</i> sp.																											
<i>Campylosira</i> <i>Plagiogramma</i>																											
<i>Ceratella</i> sp.																											
<i>Chaetoceros concavicornis</i>																											
<i>Chaetoceros convolutus</i>																											
<i>Chaetoceros</i> sp.																											
<i>Corethron hystrix</i>																											
<i>Coscinodiscus</i> sp.																											
<i>Dictyosolen</i> sp.																											
<i>Ditylum brightwellii</i>																											
<i>Eucampia zoodiacus</i>																											
<i>Gracilatoxopora</i> sp.																											
<i>Hemidius</i> sp.																											
<i>Leuderia annulata</i>																											
<i>Leptocylindrus danicus</i>																											
<i>Leptocylindrus minimus</i>																											
<i>Leptocylindrus</i> sp.																											
<i>Melosira</i> sp.																											
<i>Navicula</i> sp.																											
<i>Nitzschoid</i> sp.																											
<i>Pleurosigma Gyrosigma</i> sp.																											
<i>Rhizosolenia setigera</i>																											
<i>Rhizosolenia</i> sp.																											
<i>Rhizosolenia stolterfothii</i>																											
<i>Skeletonema costatum</i>																											
<i>Stephanopyxis</i> sp.																											
<i>Thalassionema</i> sp.																											
<i>Thalassiosira</i> sp.																											

Table 38 : Dinoflagellates in Thorpe Point samples.

date depth	Jun-23			Jun-30			Jul-07			Jul-14			Jul-21			Jul-28			Aug-04			Aug-11			Aug-18			Aug-25		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
<i>Alexandrium</i> sp.																														
<i>Amphidinium</i> sp.																														
<i>Ceratium divericatum</i>																														
<i>Ceratium furca</i>																														
<i>Ceratium fusus</i>																														
<i>Ceratium lineatum</i>																														
<i>Ceratium peritagonum</i>																														
<i>Ceratium</i> sp.																														
<i>Cochlodinium</i> sp.																														
<i>Cochlodinium</i> sp. 99																														
<i>Dinophysis</i> sp.																														
<i>Gonyaulacoid</i> sp.																														
<i>Gymnodinium</i> sp.																														
<i>Gymnodinium galatheanum</i>																														
<i>Gyrodinium spirale</i> -type																														
<i>Heterocapsa triquetra</i>																														
<i>Noctiluca scintillans</i>																														
<i>Noctiluca</i> sp.																														
<i>Oryzopsis marina</i>																														
<i>Oryzopsis</i> sp.																														
<i>Polykrikos</i> sp.																														
<i>Prorocentrum gracile</i>																														
<i>Prorocentrum nicans</i>																														
<i>Prorocentrum</i> sp.																														
<i>Protoperidinium</i> sp.																														
<i>Pyrocystis lunula</i>																														
Raphidophytes																														
<i>Heterosigma akashiwo</i>																														

Table 38 cont'd

date depth	Sep-01			Sep-08			Sep-15			Sep-22			Sep-29			Oct-06			Oct-13			Oct-20			Oct-26		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																											
<i>Alexandrium</i> sp.							1	1	1	1																	
<i>Amphidinium</i> sp.																											
<i>Ceratium divaricatum</i>																											
<i>Ceratium furca</i>																											
<i>Ceratium fusus</i>																											
<i>Ceratium lineatum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1												
<i>Ceratium pentagonum</i>																											
<i>Ceratium</i> sp.																											
<i>Cochlodinium</i> sp.							1																				
<i>Cochlodinium</i> sp. 99	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Dinophysis</i> sp.	3	4	1	3	2		1	2		1	2																
<i>Gonyaulacoid</i> sp.	1	3	2							1	2																
<i>Gymnodinium</i> sp.	9	3	6	5	2		9	4	3	2	6	5	3	3	2	3	7	1	2	2	2	5	2	9	3	1	1
<i>Gymnodinium gelatheaum</i>																											
<i>Gymnodinium</i> spirale-type	2	2		2	2		1			1	2	4	1	2		1	1	1	1	1	1						
<i>Heterocapsa triquetra</i>	1											1															
<i>Noctiluca scintillans</i>																											
<i>Noctiluca</i> sp.																											
<i>Oxyrhis marina</i>	1																										
<i>Oryzoxum</i> sp.	1	1	1	1			1						1														1
<i>Pyrrhosira</i> sp.																											
<i>Prorocentrum gracile</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1												
<i>Prorocentrum micans</i>	1	1					1			1			1						1			1			1		
<i>Prorocentrum</i> sp.																											
<i>Protoperidinium</i> sp.	6	10	5	5	2		6	5	2	3	3	3	1			3	1	1	1	1	1			1			
<i>Pyrocystis lunula</i>																											
Raphidophytes																											
<i>Heterosigma akashiwo</i>							1																				

Table 39 cont'd

date depth	Sep-01			Sep-08			Sep-15			Sep-22			Sep-29			Oct-06			Oct-13			Oct-20			Oct-26		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																											
Cryptomonads																											
<i>Dictyocha speculum</i>																											
<i>Dinobryon ballicum</i>																											
<i>Ebria tripartita</i>																											
Euglenoid																											
Phaeocystis pouchetii																											
Radiolarian																											
unid. Nanoflagellates	3	3	3	4	3	3	4	3	3	3	3	4	4	3	3	2	3	2	5	4	3	3	4	3	6	4	4
Zooplankton																											
Appendicularian																											
Ciliate	4	5	5	6	6		1	5	1	3	2	5	3	4	2	3	2	3	2	1	3	4	4	3	6	2	2
Copepod																											
Nauplius																											
Pluteus											1																
Rotifer																											
Tintinnid	1																										
Zoea																											
other																											
Dominant Species/Group																											
name																											
count (cells/mL)																											
% constituent																											
Diatoms	0	0	1	1	1	1	1	10	10	5	20	20	20	2	1	1	15	5	10	5	0	0	10	1	0	0	0
Dinoflagellates	90	90	90	93	93	93	95	80	87	85	55	50	50	90	95	95	65	80	69	60	75	70	55	45	33	30	10
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	1	1	1	1	2	1	2	20	25	25	1	1	1	5	1	1	5	5	10	20	15	33	50	70
Zooplankton	9	9	8	3	5	5	8	2	8	2	5	2	2	7	3	3	15	14	20	15	15	25	35	30	33	20	20
Biomass	4.0	4.0	3.5	3.0	3.0	3.0	3.5	3.5	3.5	3.5	3.5	3.5	3.0	3.0	2.0	2.0	1.5	3.0	1.5	2.0	2.0	1.5	1.5	1.0	3.0	1.0	1.0

Table 40 : Diatoms in Coal Harbour samples.

date depth	Jun-23			Jun-30			Jul-07			Jul-14			Jul-21			Jul-28			Aug-04			Aug-11			Aug-18			Aug-25		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
<i>Achnanthes</i> sp.																														
<i>Amphipora</i> <i>Tropidoneis</i>																														
<i>Asterionella japonica</i>																														
<i>Bacteriastrium</i> sp.																														
<i>Biddulphia</i> sp.																														
<i>Campylosira</i> <i>Pleurogramma</i>																														
<i>Cerataulina</i> sp.																														
<i>Chaetoceros concavicornis</i>																														
<i>Chaetoceros convolutus</i>																														
<i>Chaetoceros</i> sp.	5	4	3	4	5	2	4	5	4	5	5	5	1	2	4	2			4	5	3	7	7	7	6	6	2	2	1	
<i>Corethron hystrix</i>																														
<i>Coscinodiscus</i> sp.																														
<i>Dactylosolen</i> sp.	1			1	1	1	1	1	1																					
<i>Dityum brightwellii</i>	1	1		1	1	1	1	1	1	1	1	1	1	1	1															
<i>Eucampia zoodiacus</i>																														
<i>Grammatophora</i> sp.																														
<i>Hemialus</i> sp.																														
<i>Lauderia annulata</i>	1	1																												
<i>Leptocylindrus danicus</i>																														
<i>Leptocylindrus minimus</i>																														
<i>Leptophora</i> sp.																														
<i>Melosira</i> sp.																														
<i>Navicula</i> sp.	1	1		1	1	1	1	2	1	1	1	1																		
<i>Nitzschoid</i> sp.	1			1	1	1	1	2	1	2	3	2	2	2	1				5	4	3	3	3	2	2	2	1			
<i>Pleurosigma</i> <i>Gyrosigma</i> sp.																														
<i>Rhizosolenia setigera</i>																														
<i>Rhizosolenia</i> sp.	1																													
<i>Rhizosolenia stouteri</i>																														
<i>Skeletonema costatum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				1	1	1	1	1	1	1	1	1	1	1	
<i>Stephanopyxis</i> sp.																														
<i>Thalassonema</i> sp.	1	2	2	1	1	2	2	3	1	1	1	1	1	2	1	1	1	2	2	3	2	2	2	2	3	2	2	1		
<i>Thalassosira</i> sp.																														

Table 40 cont'd

date depth	Sep-01			Sep-08			Sep-15			Sep-22			Sep-29			Oct-06			Oct-13			Oct-20			Oct-26		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																											
<i>Achnanthes</i> sp.																											
<i>Amphiprora</i> <i>Tropidoneis</i>																											
<i>Asterionella</i> <i>japonica</i>																											
<i>Bacteriastrium</i> sp.																											
<i>Biddulphia</i> sp.																											
<i>Campylodiscus</i> <i>Plagiogramma</i>																											
<i>Ceratidalia</i> sp.																											
<i>Chaetoceros concavicornis</i>																											
<i>Chaetoceros convolutus</i>																											
<i>Chaetoceros</i> sp.																											
<i>Corethron hystrix</i>																											
<i>Coscinodiscus</i> sp.																											
<i>Dactylosolen</i> sp.																											
<i>Ditylum brightwellii</i>																											
<i>Eucampia zoodiacus</i>																											
<i>Grammatophora</i> sp.																											
<i>Hemialus</i> sp.																											
<i>Lauderia annulata</i>																											
<i>Leptocylindrus danicus</i>																											
<i>Leptocylindrus minimus</i>																											
<i>Leptocylindrus</i> sp.																											
<i>Melosira</i> sp.																											
<i>Nannula</i> sp.																											
<i>Nitzschoid</i> sp.																											
<i>Peurosigma</i> <i>Gyrosigma</i> sp.																											
<i>Rhizosolenia setigera</i>																											
<i>Rhizosolenia</i> sp.																											
<i>Rhizosolenia stohlerii</i>																											
<i>Skeletonema costatum</i>																											
<i>Stephanopyx</i> sp.																											
<i>Thalassionema</i> sp.																											
<i>Thalassiosira</i> sp.																											

Table 41 cont'd

date depth	Sep-01			Sep-08			Sep-15			Sep-22			Sep-29			Oct-06			Oct-13			Oct-20			Oct-26		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																											
<i>Alexandrium</i> sp.																											
<i>Amphidinium</i> sp.																											
<i>Ceratium divorticatum</i>																											
<i>Ceratium furca</i>																											
<i>Ceratium fusus</i>																											
<i>Ceratium lineatum</i>	1	1	1	1	1	1	1	1	1	1	1	1							1								
<i>Ceratium pentagonum</i>																											
<i>Ceratium</i> sp.																											
<i>Cochlodinium</i> sp.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<i>Dinophryad</i> sp.	4	3	2	2	1	1	1	1	1	2	1	1				1	1					2					
<i>Gonyaulacoid</i> sp.	1	1																									
<i>Gymnodinium</i> sp.	7	5	7	8	3	2	5	3	3	6	4	2	3	3	2	2	3	3	7	4	1	6	1	2	2	2	4
<i>Gymnodinium galathenium</i>																											
<i>Gymnodinium spirale</i> type	2	2	1	3			1	1	1	2	2	1	2	1	1	2	1	1	1	1	1	2					1
<i>Heterocapsa triquetra</i>	1		1																								
<i>Noctiluca acinillians</i>																											
<i>Noctiluca</i> sp.																											
<i>Oxyrhis marina</i>	1	1	1																								1
<i>Oxytoxum</i> sp.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
<i>Polykiss</i> sp.	1																										
<i>Prorocentrum gracile</i>	1	1	1	1	1	1	1	1	1				1	1	1												
<i>Prorocentrum micans</i>	1		1	1	1	1	1	1	1	1	1	1	1	1	1				1								
<i>Prorocentrum</i> sp.																											
<i>Prorocentrum</i> sp.	7	6	1	6	4	3	2			3	1	1	3	2		1	1	1	2					1	1		
<i>Pyrocystis lunula</i>																											
<i>Raphidophytes</i>																											
<i>Heterosigma akashiwo</i>																			1								

Table 42 cont'd

[illegible]

Table 43 : Diatoms in Koprino Harbour samples.

Diatoms	06-Jul			13-Jul			20-Jul			27-Jul			03-Aug			10-Aug			17-Aug			24-Aug			31-Aug			07-Sep		
	date	depth		date	depth		date	depth		date	depth		date	depth		date	depth		date	depth		date	depth		date	depth		date	depth	
<i>Achnanthes</i> sp.		1m			1m			1m			1m			1m			1m			1m			1m			1m			1m	
<i>Amphiproral</i> <i>Tropidoneis</i>		5m			5m			5m			5m			5m			5m			5m			5m			5m			5m	
<i>Asterionella</i> <i>japonica</i>		10m			10m			10m			10m			10m			10m			10m			10m			10m			10m	
<i>Bacteriastrium</i> sp.																														
<i>Biddulphia</i> sp.																														
<i>Campylosira</i> <i>Plagiogramma</i>																														
<i>Cerataulina</i> sp.																														
<i>Chaetoceros</i> <i>concalicorne</i>																														
<i>Chaetoceros</i> <i>convolutus</i>		2	1		1		1	2	2		2	2	1	3		6	5	4	4	3	4		2	1						
<i>Chaetoceros</i> sp.																														
<i>Corethron</i> <i>hystrix</i>																														
<i>Coscinodiscus</i> sp.		1			1		1																							
<i>Dactylosolen</i> sp.																														
<i>Ditylum</i> <i>brighwellii</i>																														
<i>Eucampia</i> <i>zoodiacus</i>		1																												
<i>Grammatophora</i> sp.																														
<i>Hemialus</i> sp.																														
<i>Lauderia</i> <i>annulata</i>																														
<i>Leptocylindrus</i> <i>danicus</i>																														
<i>Leptocylindrus</i> <i>minimus</i>																														
<i>Limnophora</i> sp.																														
<i>Melosira</i> sp.																														
<i>Navicula</i> sp.		1																												
<i>Nitzschoid</i> sp.																														
<i>Pleurosigma</i> <i>Gyrosigma</i> sp.																														
<i>Rhizosolenia</i> <i>setigera</i>																														
<i>Rhizosolenia</i> sp.																														
<i>Rhizosolenia</i> <i>stolterfothii</i>																														
<i>Skeletonema</i> <i>costatum</i>		1																												
<i>Stephanopyxis</i> sp.																														
<i>Thalassionema</i> sp.																														
<i>Thalassiosira</i> sp.		2	2	1																										

Table 43 cont'd

date depth	14-Sep			21-Sep			28-Sep			05-Oct			12-Oct			19-Oct			26-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
<i>Achnanthes</i> sp.																					
<i>Amphipora</i> <i>Tropidoneis</i>																					
<i>Asterionella japonica</i>																					
<i>Bacteriasium</i> sp.																					
<i>Biddulphia</i> sp.																					
<i>Campylosira</i> <i>Plagiogramma</i>																					
<i>Cerataulina</i> sp.																					
<i>Chaetoceros concavicornis</i>																					
<i>Chaetoceros convolutus</i>	1			4	2	4	3	4	3	1			4	2	2	2					
<i>Chaetoceros</i> sp.																					
<i>Corethron hystrix</i>																					
<i>Coscinodiscus</i> sp.	1																				
<i>Dactylosolen</i> sp.																					
<i>Ditylum brightwellii</i>																					
<i>Eucampia zoodiacus</i>																					
<i>Grammatophora</i> sp.																					
<i>Hemialus</i> sp.																					
<i>Lauderia annulata</i>																					
<i>Leptocylindrus danicus</i>																					
<i>Leptocylindrus minimus</i>																					
<i>Licmophora</i> sp.																					
<i>Melosira</i> sp.																					
<i>Navicula</i> sp.																					
<i>Nitzschoid</i> sp.																					
<i>Pleurosigma</i> <i>Gyrosigma</i> sp.																					
<i>Rhizosolenia setigera</i>																					
<i>Rhizosolenia</i> sp.																					
<i>Rhizosolenia stollerfothii</i>																					
<i>Skeletonema costatum</i>																					
<i>Siephanopyxis</i> sp.																					
<i>Thalassionema</i> sp.																					
<i>Thalassiosira</i> sp.																					

Table 44 : Dinoflagellates in Koprino Harbour samples.

Dinoflagellates	06-Jul			13-Jul			20-Jul			27-Jul			03-Aug			10-Aug			17-Aug			24-Aug			31-Aug			07-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
<i>Alexandrium</i> sp.																														
<i>Amphidinium</i> sp.																														
<i>Ceratium diventiculatum</i>																														
<i>Ceratium furca</i>																														
<i>Ceratium fusus</i>																														
<i>Ceratium lineatum</i>																														
<i>Ceratium pentagonum</i>																														
<i>Ceratium</i> sp.																														
<i>Cochlodinium</i> sp.																														
<i>Cochlodinium</i> sp. 99																														
<i>Dinophysis</i> sp.																														
<i>Gonyaulacoid</i> sp.																														
<i>Gymnodinium</i> sp.																														
<i>Gymnodinium galatheanum</i>																														
<i>Gyrodinium spirale</i> -type																														
<i>Heterocapsa triquetra</i>																														
<i>Noctiluca scintillans</i>																														
<i>Noctiluca</i> sp.																														
<i>Oxyrhis marina</i>																														
<i>Oxytoxum</i> sp.																														
<i>Polykrikos</i> sp.																														
<i>Prorocentrum gracile</i>																														
<i>Prorocentrum micans</i>																														
<i>Prorocentrum minimum</i>																														
<i>Prorocentrum</i> sp.																														
<i>Protoperidinioid</i> sp.																														
<i>Pyrocystis lunula</i>																														
<i>Raphidophytes</i>																														
<i>Heterosigma akashiwo</i>																														

Table 44 cont'd

date	14-Sep			21-Sep			28-Sep			05-Oct			12-Oct			19-Oct			26-Oct		
	depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m		
Dinoflagellates																					
<i>Alexandrium</i> sp.																					
<i>Amphidinium</i> sp.																					
<i>Ceratium divericatum</i>																					
<i>Ceratium furca</i>																					
<i>Ceratium lusus</i>																					
<i>Ceratium lineatum</i>																					
<i>Ceratium pentagonum</i>																					
<i>Ceratium</i> sp.																					
<i>Cochlodinium</i> sp.																					
<i>Cochlodinium</i> sp. 99																					
<i>Dinophysioid</i> sp.																					
<i>Gonyaulacoid</i> sp.																					
<i>Gymnodinoid</i> sp.																					
<i>Gymnodinium galatheanum</i>																					
<i>Gyrodinium spirale</i> -type																					
<i>Heterocapsa triquetra</i>																					
<i>Noctiluca scintillans</i>																					
<i>Noctiluca</i> sp.																					
<i>Oxyrrhis marina</i>																					
<i>Oxytoxum</i> sp.																					
<i>Polykrikos</i> sp.																					
<i>Prorocentrum gracile</i>																					
<i>Prorocentrum micans</i>																					
<i>Prorocentrum minimum</i>																					
<i>Prorocentrum</i> sp.																					
<i>Prorocentroides</i> sp.																					
<i>Pyracystis lunula</i>																					
Raphidophytes																					
<i>Heterosigma akashiwo</i>																					

Table 45 cont'd

[illegible]

Table 46 : Diatoms in Koskimo Bay samples.

date depth	06-Jul			13-Jul			20-Jul			27-Jul			03-Aug			10-Aug			17-Aug			24-Aug			31-Aug			07-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
<i>Achnanthes</i> sp.																														
<i>Amphipora</i> <i>Tropidoneis</i>																														
<i>Asterionella japonica</i>																														
<i>Ecteniasium</i> sp.																														
<i>Biddulphia</i> sp.																														
<i>Campylosira</i> <i>Plagiogramma</i>																														
<i>Cerataulina</i> sp.																														
<i>Chaetoceros concavicornis</i>																														
<i>Chaetoceros convolutus</i>																														
<i>Chaetoceros</i> sp.	2	2	1				1	1	1	3	3	2	2	4	5	4	6	3	6	6	5	5	4	5	1					
<i>Corethron hystrix</i>																														
<i>Coscinodiscus</i> sp.	1	1					1	1	1																					
<i>Dactylosolen</i> sp.																														
<i>Ditylum brightwellii</i>	1						1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1						
<i>Eucampia zoodiacus</i>																														
<i>Grammatophora</i> sp.																														
<i>Hemialus</i> sp.																														
<i>Leudena annulata</i>																														
<i>Leptocylindrus danicus</i>																														
<i>Leptocylindrus minimus</i>																														
<i>Leptocylindrus</i> sp.																														
<i>Malosira</i> sp.																														
<i>Navicula</i> sp.																														
<i>Nitzschoid</i> sp.	1	1	1																											
<i>Pleurosigma</i> <i>Gyrosigma</i> sp.																														
<i>Rhizosolenia setigera</i>																														
<i>Rhizosolenia</i> sp.																														
<i>Rhizosolenia stollerfothii</i>																														
<i>Skeletonema costatum</i>	1	1																												
<i>Stephanopyxis</i> sp.																														
<i>Thalassonema</i> sp.																														
<i>Thalassiosira</i> sp.	2	3	3				1	2	1	2	1	2	1	2	2	1	3	2	2	3	2	3	2	3	1	1	1	1	1	1

Table 46 cont'd

date depth	14-Sep			21-Sep			28-Sep			05-Oct			12-Oct			19-Oct			26-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoma																					
<i>Achnanthes</i> sp.																					
<i>Amphiprora</i> <i>Tropidoneis</i>																					
<i>Asterionella japonica</i>																					
<i>Bacteriasira</i> sp.																					
<i>Biddulphia</i> sp.																					
<i>Campyosira</i> <i>Plagiogramma</i>																					
<i>Cerataulina</i> sp.																					
<i>Chaetoceros concavicornis</i>																					
<i>Chaetoceros convolutus</i>																					
<i>Chaetoceros</i> sp.	1			1			4	2	3				1	1	2	1					
<i>Corethron hystrix</i>																					
<i>Coscinodiscus</i> sp.																					
<i>Dactylosolen</i> sp.																					
<i>Ditylum brightwellii</i>									1												
<i>Eucampia zoodiacus</i>																					
<i>Grammatophora</i> sp.																					
<i>Hemialus</i> sp.																					
<i>Lauderia annulata</i>																					
<i>Leptocylindrus danicus</i>				1									1	1	1						
<i>Leptocylindrus minimus</i>																					
<i>Lucinophora</i> sp.																					
<i>Melosira</i> sp.																					
<i>Navicula</i> sp.																					
<i>Nitzschoid</i> sp.				2	1	1	1	1	2				2	1	2	1					2
<i>Pleurossigma</i> <i>Gyrosigma</i> sp.																					
<i>Rhizosolenia setigera</i>							1	1	1												
<i>Rhizosolenia</i> sp.							1	1	1												
<i>Rhizosolenia stollerfohii</i>																					
<i>Skeletonema costatum</i>			1	1	1	1															
<i>Stephanopyxis</i> sp.																					
<i>Thalassionema</i> sp.				1																	
<i>Thalassiosira</i> sp.				1	1		2	3	3	1	1	1	1	1	2	1				1	1

Table 47 : Dinoflagellates in Koskimo Bay samples.

date depth	06-Jul			13-Jul			20-Jul			27-Jul			03-Aug			10-Aug			17-Aug			24-Aug			31-Aug			07-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
<i>Alexandrium</i> sp.																														
<i>Amphidinium</i> sp.																														
<i>Ceratium divericatum</i>																														
<i>Ceratium furca</i>																														
<i>Ceratium fusus</i>																														
<i>Ceratium lineatum</i>																														
<i>Ceratium pentagonum</i>																														
<i>Ceratium</i> sp.																														
<i>Cochlodinium</i> sp.																														
<i>Cochlodinium</i> sp. 99																														
<i>Dinophysis</i> sp.																														
<i>Gonyaulax</i> sp.																														
<i>Gymnodinium</i> sp.																														
<i>Gymnodinium galatheanum</i>																														
<i>Gyrodinium spirale</i> -type																														
<i>Heterocapsa triquetra</i>																														
<i>Noctiluca scintillans</i>																														
<i>Noctiluca</i> sp.																														
<i>Oryzopsis marina</i>																														
<i>Oxytoxum</i> sp.																														
<i>Polykrikos</i> sp.																														
<i>Prorocentrum gracile</i>																														
<i>Prorocentrum micans</i>																														
<i>Prorocentrum minimum</i>																														
<i>Prorocentrum</i> sp.																														
<i>Protoperidinium</i> sp.																														
<i>Pyrocystis lunula</i>																														
Raphidophytes																														
<i>Heterosigma akashiwo</i>																														

Table 47 cont'd

date depth	14-Sep			21-Sep			28-Sep			05-Oct			12-Oct			19-Oct			26-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																					
<i>Alexandrium</i> sp.																					
<i>Amphidinium</i> sp.																					
<i>Ceratium divaricatum</i>																					
<i>Ceratium furca</i>																					
<i>Ceratium fusus</i>																					
<i>Ceratium lineatum</i>	1			1			1	1					1	1					1	1	1
<i>Ceratium pentagonum</i>																					
<i>Ceratium</i> sp.																					
<i>Cochlodinium</i> sp.																					
<i>Cochlodinium</i> sp. 99	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					1	
<i>Dinophysis</i> sp.	2									1			1	1					1		
<i>Gonyaulacoid</i> sp.																					
<i>Gymnodinium</i> sp.	5	5	2	9	4	3	6	6	3	2	4	1	7	7	2	1	2	1	2	3	2
<i>Gymnodinium galatheanum</i>																					
<i>Gyrodinium spirale</i> -type	1	1	1	1	1	2	3	2		2	2	2	3	1		1					
<i>Heterocapsa triquetra</i>	1			1																	
<i>Noctiluca scintillans</i>																					
<i>Noctiluca</i> sp.																					
<i>Oxyrhis marina</i>																					
<i>Oxyrhis</i> sp.	1			1			1						1								
<i>Polykrikos</i> sp.																					
<i>Prorocentrum gracile</i>	1	1		1								1	1			1			1	1	1
<i>Prorocentrum micans</i>	1			1			1			1			1	1		1			1	1	1
<i>Prorocentrum minimum</i>																					
<i>Prorocentrum</i> sp.																					
<i>Protoperidinium</i> sp.	5			1			3	2		1			4	2	1				1	1	
<i>Pyrocystis lunula</i>																					
Raphidophytes																					
<i>Heterosigma akashiwo</i>	1	1		1						1	1										

Table 48 cont'd

[illegible]

Table 49 : Diatoms in Cleagh Creek samples.

diatoms	1-Jul			8-Jul			15-Jul			22-Jul			29-Jul			5-Aug			12-Aug			19-Aug			26-Aug			2-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
<i>Achnanthes</i> sp.																														
<i>Amphiprora</i> <i>Tropidoneis</i>																														
<i>Asterionella japonica</i>																														
<i>Bacteriastrium</i> sp.																														
<i>Biddulphia</i> sp.																														
<i>Campylosira/Pleurogramma</i>																														
<i>Ceratulina</i> sp.																														
<i>Chaetoceros concavicornis</i>																														
<i>Chaetoceros convolutus</i>																														
<i>Chaetoceros</i> sp.																														
<i>Corethron hystrix</i>																														
<i>Coscinodiscus</i> sp.																														
<i>Dactylosolen</i> sp.																														
<i>Ditylum brightwellii</i>																														
<i>Eucampia zoodiacus</i>																														
<i>Grammatophora</i> sp.																														
<i>Hemielus</i> sp.																														
<i>Lauderia annulata</i>																														
<i>Leptocylindrus danicus</i>																														
<i>Leptocylindrus minimus</i>																														
<i>Licmophora</i> sp.																														
<i>Melosira</i> sp.																														
<i>Navicula</i> sp.																														
<i>Nitzschia</i> sp.																														
<i>Pleurosigma Gyrodigma</i> sp.																														
<i>Rhizosolenia setigera</i>																														
<i>Rhizosolenia</i> sp.																														
<i>Rhizosolenia alutatorum</i>																														
<i>Skeletonema costatum</i>																														
<i>Stephanopyxis</i> sp.																														
<i>Thalassionema</i> sp.																														
<i>Thalassiosira</i> sp.																														

Table 49 cont'd

date depth	9-Sep			16-Sep			23-Sep			30-Sep			7-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms															
<i>Achnanthes</i> sp.															
<i>Amphiprora</i> <i>Tropidoneis</i>															
<i>Asterionella japonica</i>															
<i>Bacteriastrium</i> sp.															
<i>Biddulphia</i> sp.															
<i>Campylosira</i> <i>Plagiogramma</i>															
<i>Cerataulina</i> sp.															
<i>Chaetoceros concavicornis</i>															
<i>Chaetoceros convolutus</i>															
<i>Chaetoceros</i> sp.				1	1	1	1	1	3	1		2		4	1
<i>Corethron hystrix</i>															
<i>Coccinodiscus</i> sp.															
<i>Dactylosolen</i> sp.															
<i>Ditylum brightwellii</i>															
<i>Eucampia zoodiacus</i>															
<i>Grammelophora</i> sp.															
<i>Hemielus</i> sp.															
<i>Lauderia annulata</i>															
<i>Leptocylindrus danicus</i>															
<i>Leptocylindrus minimus</i>			1												
<i>Licmophora</i> sp.						1									
<i>Melosira</i> sp.															
<i>Navicula</i> sp.			1												
<i>Nitzschoid</i> sp.															
<i>Pleurosigma</i> <i>Gyrodigma</i> sp.															
<i>Rhizosolenia setigera</i>															
<i>Rhizosolenia</i> sp.						1			1	1		1		1	1
<i>Rhizosolenia stollertii</i>															
<i>Skeletonema costatum</i>				1		1	1	1	1	1		1			
<i>Stephanopyxis</i> sp.															
<i>Thalassionema</i> sp.									1	1				1	1
<i>Thalassiosira</i> sp.				1					1	1		1		2	1

Table 50 : Dinoflagellates in Cleagh Creek samples.

date depth	1-Jul			8-Jul			15-Jul			22-Jul			29-Jul			5-Aug			12-Aug			19-Aug			26-Aug			2-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m			
Dinoflagellates																														
<i>Alexandrium</i> sp.																														
<i>Amphidinium</i> sp.																														
<i>Ceratium divericatum</i>																														
<i>Ceratium furca</i>																														
<i>Ceratium fusus</i>																														
<i>Ceratium lineatum</i>																														
<i>Ceratium pentagonum</i>																														
<i>Ceratium</i> sp.																														
<i>Cochlodinium</i> sp.																														
<i>Dinophysioid</i> sp.																														
<i>Gonyaulacoid</i> sp.		1	1					1																						
<i>Gymnodinoid</i> sp.							4	3																						
<i>Gymnodinium galatheanum</i>																														
<i>Gyrodinium spirale</i> -type																														
<i>Heterocapsa triquetra</i>																														
<i>Noctiluca scintillans</i>																														
<i>Noctiluca</i> sp.																														
<i>Oxyrhis marina</i>																														
<i>Oxytoxum</i> sp.																														
<i>Polykrikos</i> sp.																														
<i>Prorocentrum gracile</i>																														
<i>Prorocentrum micans</i>																														
<i>Prorocentrum</i> sp.																														
<i>Protoperidinioid</i> sp.																														
<i>Pyrocystis lunula</i>																														
Raphidophytes																														
<i>Heterosigma akashiwo</i>																														

Table 50 cont'd

date depth	9-Sep			16-Sep			23-Sep			30-Sep			7-Oct		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates															
<i>Alexandrium</i> sp.												1			
<i>Amphidinium</i> sp.															
<i>Ceratium divericatum</i>															
<i>Ceratium furca</i>															
<i>Ceratium fusus</i>					1										
<i>Ceratium lineatum</i>	1	1	1	1	1	1					1	1			1
<i>Ceratium pentagonum</i>															
<i>Ceratium</i> sp.															
<i>Cochlodinium</i> sp.		1													
<i>Dinophysioid</i> sp.	2	1	2	1	2										
<i>Gonyaulacoid</i> sp.	1			2											
<i>Gymnodinium</i> sp.	4	3	2	5	5	2	1		3	3	3	5	1	2	3
<i>Gymnodinium galatheanum</i>															
<i>Gyrodinium spirale</i> -type				2		1	2	3		1		1		1	
<i>Heterocapsa triquetra</i>				1											
<i>Noctiluca scintillans</i>															
<i>Noctiluca</i> sp.															
<i>Oxymis marina</i>															
<i>Oxytoxum</i> sp.	1			1		1	1	1				1			
<i>Polyskritos</i> sp.															
<i>Prorocentrum gracile</i>	1	1		1	1	1	1	1	1	1		1	1	1	
<i>Prorocentrum micans</i>	1	1		1	1	1	1	1	1	1	1	1	1	1	
<i>Prorocentrum</i> sp.															
<i>Protoperidinium</i> sp.	2		2	1	1	1	2	1	1	4	1	4	1	1	
<i>Pyrocystis lunula</i>															
Raphidophytes															
<i>Heterosigma akashiwo</i>	1														

Table 51 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Cleagh Creek samples.

date depth	1-Jul			8-Jul			15-Jul			22-Jul			29-Jul			5-Aug			12-Aug			19-Aug			26-Aug			2-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m			
Other Flagellates																														
Cryptomonads							1	1																						
<i>Dictyocha speculum</i>							1																							
<i>Dinobryon balticum</i>																														
<i>Ebria triparita</i>																														
Euglenoid																														
<i>Phaeocystis pouchetii</i>																														
Radiolarian																														
unid. Nanoflagellates	3	3		3	4		4	5		4	5	6	2	4	6	5	5		4	4	4	3	3	3	3	3	3	3		
Zooplankton																														
Appendicularian																														
Ciliate																														
Copepod																														
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid																														
Zoea																														
other																														
Dominant Species/Group																														
name	no sample			no sample			no sample			no sample			no sample			no sample			no sample			no sample			no sample			no sample		
	unid. species			no sample			no sample			no sample			no sample			no sample			no sample			no sample			no sample			no sample		
count (cells/mL)	100			100			100			100			100			100			100			100			100			100		
% constituent	15			5			5			25			45			20			68			5			5			5		
Diatoms	0			0			0			0			0			0			0			89			80			98		
Dinoflagellates	5			10			5			10			5			10			15			1			1			1		
Raphidophytes	5			10			5			10			5			10			15			1			1			1		
Other Flagellates	50			10			15			30			20			45			10			5			15			12		
Zooplankton																														
Biomass																														
	Cochlodium sp. 99			Cochlodium sp. 99			Cochlodium sp. 99			no sample			Cochlodium sp. 99			Cochlodium sp. 99			Cochlodium sp. 99			Cochlodium sp. 99			Cochlodium sp. 99			Cochlodium sp. 99		
	-500			930			5500						1300			900			290			265			1000			100		
	100			100			100			100			100			100			100			100			100			100		
	0			0			0			0			0			0			0			0			0			0		
	1			1			1			1			1			1			1			1			1			1		
	98			98			98			98			98			98			98			98			98			98		
	0			0			0			0			0			0			0			0			0			0		
	5			5			5			5			5			5			5			5			5			5		
	2			2			2			2			2			2			2			2			2			2		
	1			1			1			1			1			1			1			1			1			1		
	2			2			2			2			2			2			2			2			2			2		
	4			4			4			4			4			4			4			4			4			4		
	3.0			3.5			3.0			3.5			3.0			3.5			3.0			3.5			3.0			3.5		
	3.0			3.5			3.0			3.5			3.0			3.5			3.0			3.5			3.0			3.5		

Table 51 cont'd

[illegible]

Table 52 : Diatoms in Kultus Cove samples.

diatom	01-Jul			08-Jul			15-Jul			22-Jul			29-Jul			05-Aug			12-Aug			19-Aug			26-Aug			09-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
<i>Achnanthes</i> sp.																														
<i>Amphiprora</i> <i>Tropidoneis</i>																														
<i>Asterionella</i> <i>japonica</i>																														
<i>Bacteriasira</i> sp.																														
<i>Biddulphia</i> sp.																														
<i>Campylosira</i> <i>Plagiogramma</i>																														
<i>Cerataulina</i> sp.																														
<i>Chaetoceros</i> <i>concavicornis</i>	1																													
<i>Chaetoceros</i> <i>convolutus</i>	1	2																												
<i>Chaetoceros</i> sp.																														
<i>Corethron</i> <i>hystrix</i>																														
<i>Coscinodiscus</i> sp.	1																													
<i>Diacyclops</i> sp.	1	1																												
<i>Ditylum</i> <i>brightwellii</i>	1	1																												
<i>Eucampia</i> <i>zoodiacus</i>																														
<i>Grammelophora</i> sp.																														
<i>Hemiallus</i> sp.																														
<i>Lauderia</i> <i>annulata</i>																														
<i>Leptocylindrus</i> <i>danicus</i>																														
<i>Leptocylindrus</i> <i>minimus</i>																														
<i>Licmophora</i> sp.																														
<i>Melosira</i> sp.																														
<i>Navicula</i> sp.																														
<i>Nitzschoid</i> sp.	2																													
<i>Pleurosigma</i> <i>Gyrosigma</i> sp.																														
<i>Rhizosolenia setigera</i>																														
<i>Rhizosolenia</i> sp.																														
<i>Rhizosolenia stelleri</i>																														
<i>Skeletonema costatum</i>	1	1																												
<i>Stephanopyxis</i> sp.	1																													
<i>Thalassionema</i> sp.	1	1																												
<i>Thalassiosira</i> sp.																														

Table 52 cont'd

	date	16-Sep			23-Sep			07-Oct		
	depth	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms										
<i>Achnanthes</i> sp.										
<i>Amphipora</i> <i>Tropidoneis</i>										
<i>Asterionella japonica</i>										
<i>Bacteriastrium</i> sp.					1					
<i>Biddulphia</i> sp.										
<i>Campylodiscus</i> <i>Plagiogramma</i>										
<i>Cerataia</i> sp.										
<i>Chaetoceros concavicornis</i>										
<i>Chaetoceros convolutus</i>					3	3	5			
<i>Chaetoceros</i> sp.										
<i>Corethron hystrix</i>										
<i>Coscinodiscus</i> sp.										
<i>Dactylosolen</i> sp.										
<i>Ditylum brightwellii</i>										
<i>Eucampia zoodiacus</i>										
<i>Grammatophora</i> sp.										
<i>Hemiallus</i> sp.										
<i>Lauderia annulata</i>						1				
<i>Leptocylindrus danicus</i>										
<i>Leptocylindrus minimus</i>										
<i>Leptocylindrus</i> sp.					1					
<i>Meiosira</i> sp.								1		
<i>Navicula</i> sp.			1							
<i>Nitzschoid</i> sp.					2	2	2	1		
<i>Pleurosigma</i> <i>Gyrodigma</i> sp.										1
<i>Rhizosolenia setigera</i>										
<i>Rhizosolenia</i> sp.					1			1		
<i>Rhizosolenia stelleri</i> <i>fohii</i>										
<i>Skeletonema costatum</i>		1	1	1	1	1	1	1		
<i>Stephanopyxis</i> sp.										
<i>Thalassionema</i> sp.					1	1	1			
<i>Thalassiosira</i> sp.					1			1		

Table 53 : Dinoflagellates in Kulus Cove samples.

date depth	01-Jul			08-Jul			15-Jul			22-Jul			29-Jul			05-Aug			12-Aug			19-Aug			26-Aug			09-Sep		
	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
<i>Alexandrium</i> sp.																														
<i>Amphidinium</i> sp.																														
<i>Ceratium diversicatum</i>																														
<i>Ceratium furca</i>																														
<i>Ceratium fissus</i>																														
<i>Ceratium lineatum</i>																														
<i>Ceratium pentagonum</i>																														
<i>Ceratium</i> sp.																														
<i>Cochlodinium</i> sp.																														
<i>Cochlodinium</i> sp. 99																														
<i>Dinophysis</i> sp.																														
<i>Gonyaulax</i> sp.																														
<i>Gymnodinium</i> sp.																														
<i>Gymnodinium</i> sp. 99																														
<i>Gymnodinium</i> spirale-type																														
<i>Heterocapsa triquetra</i>																														
<i>Noctiluca scintillans</i>																														
<i>Noctiluca</i> sp.																														
<i>Oryzopsis marina</i>																														
<i>Oryzopsis</i> sp.																														
<i>Polykrikos</i> sp.																														
<i>Prorocentrum gracile</i>																														
<i>Prorocentrum micans</i>																														
<i>Prorocentrum minimum</i>																														
<i>Prorocentrum</i> sp.																														
<i>Prorocentrum</i> sp.																														
<i>Pyrocystis lunula</i>																														
Raphidophytes																														
<i>Heterosigma akashiwo</i>																														

Table 53 cont'd

	date	16-Sep			23-Sep			07-Oct		
	depth	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates										
<i>Alexandrium</i> sp.										
<i>Amphidinium</i> sp.			1							
<i>Ceratium divaricatum</i>										
<i>Ceratium furca</i>										
<i>Ceratium fusus</i>										
<i>Ceratium lineatum</i>		1	1							
<i>Ceratium pentagonum</i>										
<i>Ceratium</i> sp.										
<i>Cochlodinium</i> sp.		1	1	1	1	1	1	1	1	1
<i>Cochlodinium</i> sp. 99		3								1
<i>Dinophysis</i> sp.		1								
<i>Gonyaulacoid</i> sp.		4	4	3	4	2	2			1
<i>Gymnodinium</i> sp.										
<i>Gymnodinium galatheanum</i>										
<i>Gyrodinium</i> spirale-type		1								2
<i>Heterocapsa triquetra</i>		1								
<i>Noctiluca scintillans</i>										
<i>Noctiluca</i> sp.										
<i>Orythys marina</i>										
<i>Oryxium</i> sp.		1	1		1					
<i>Polykrikos</i> sp.										
<i>Prorocentrum gracile</i>		1	1	1	1	1	1			
<i>Prorocentrum mikans</i>		1	1					1	1	
<i>Prorocentrum minimum</i>										
<i>Prorocentrum</i> sp.										
<i>Prorocentrum</i> sp.		2				2				
<i>Pyrocystis lunula</i>										
Raphidophytes										
<i>Heterosigma akashiwo</i>									1	

Table 54 cont'd

date	16-Sep			23-Sep			07-Oct			
	depth	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates										
Cryptomonads										
<i>Dityocha speculum</i>					1	1	1	1	1	1
<i>Dinobryon bellicum</i>										
<i>Ebria tripartita</i>										
Euglenoid										
<i>Phaeocystis pouchetii</i>										
Radiolarian										
unid. Nanoflagellates		3	5	4	4	5	4	2	4	3
Zooplankton										
Appendicularian										
Ciliate		1	1	3	3	1	1	2	2	2
Copepod							1			
Nauplius			1						1	
Pluteus										
Rotifer						1	1			
Tintinnid										1
Zoea										
other										
Dominant Species/Group										
name										
count (cells/mL)										
% constituent										
Diatoms										
Dinoflagellates										
Raphidophytes										
Other Flagellates										
Zooplankton										
Biomass										

SHELTER BAY 1999

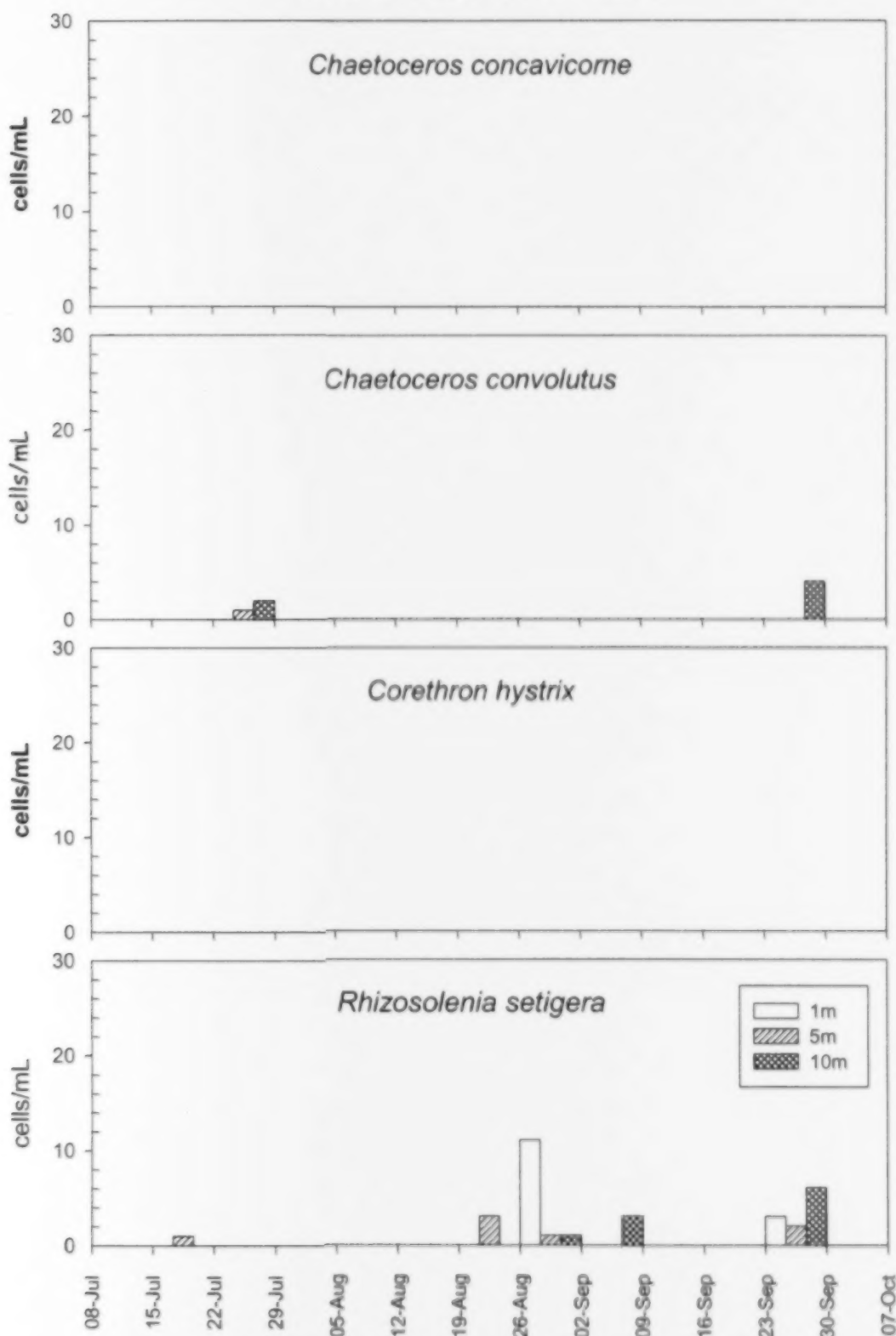


Figure 2: Harmful phytoplankton species in Shelter Bay samples.

SHELTER BAY 1999

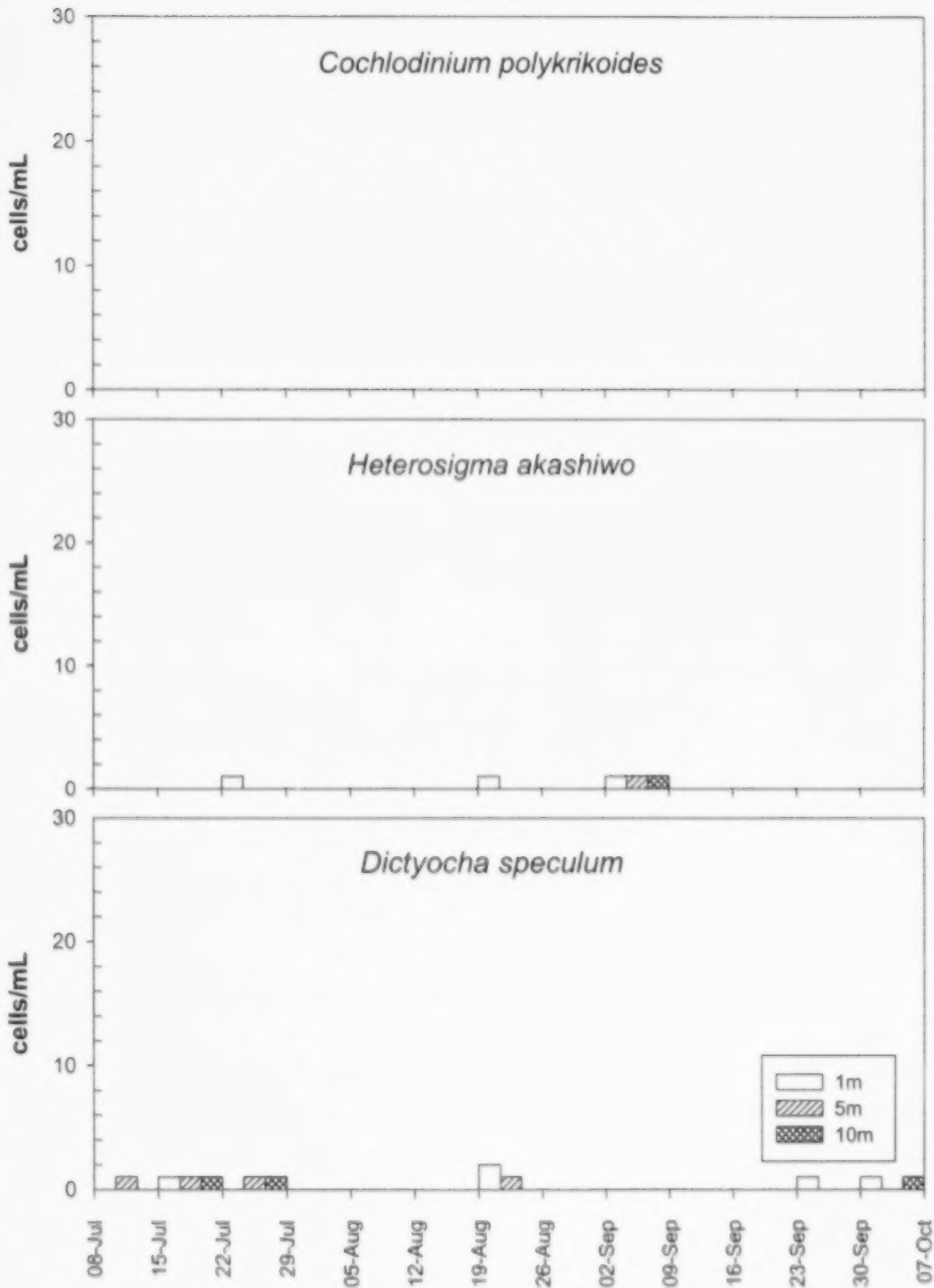


Figure 3: Harmful phytoplankton species in Shelter Bay samples.

SIMOOM SOUND 1999

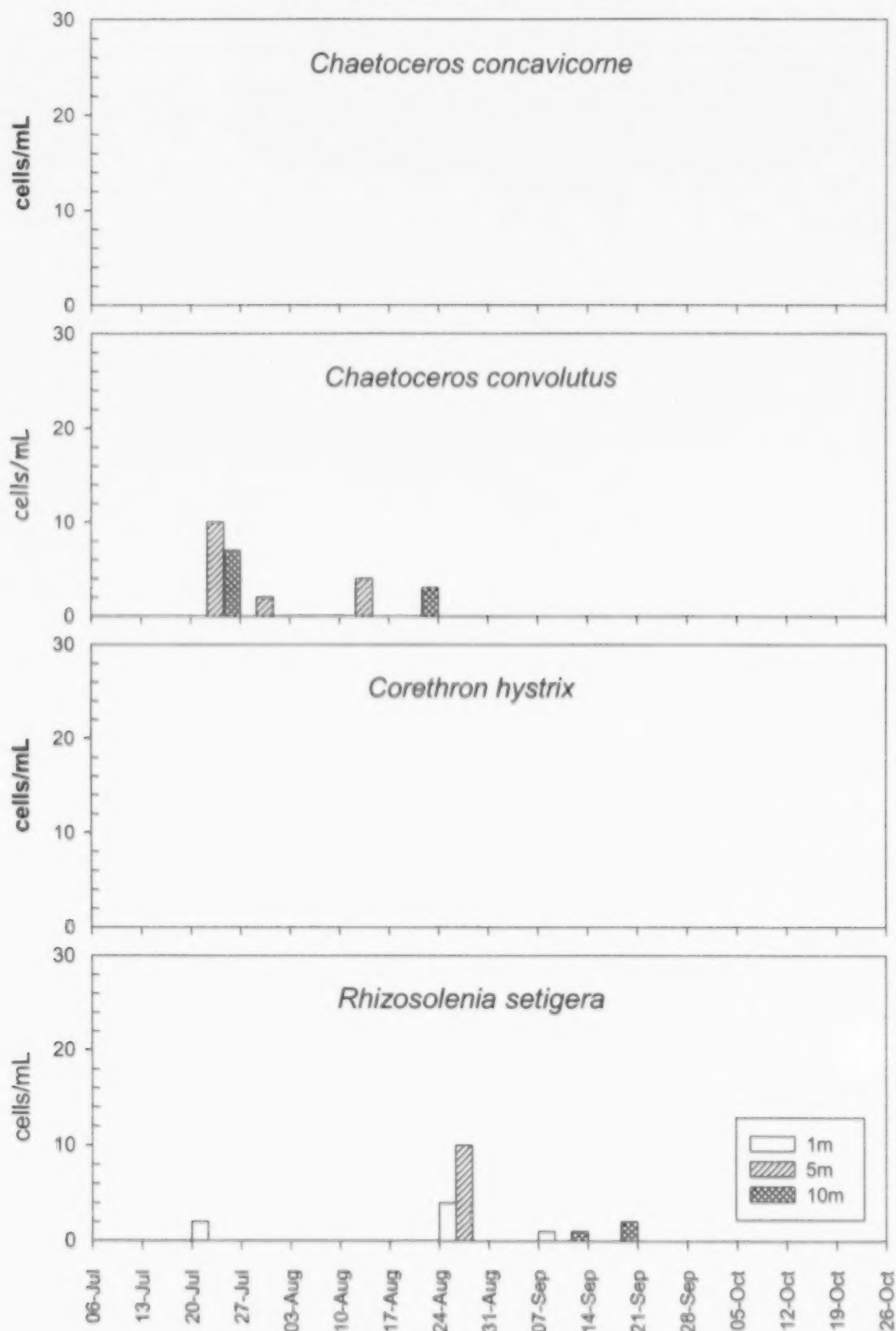


Figure 4: Harmful phytoplankton species in Simoom Sound samples.

SIMOOM SOUND 1999

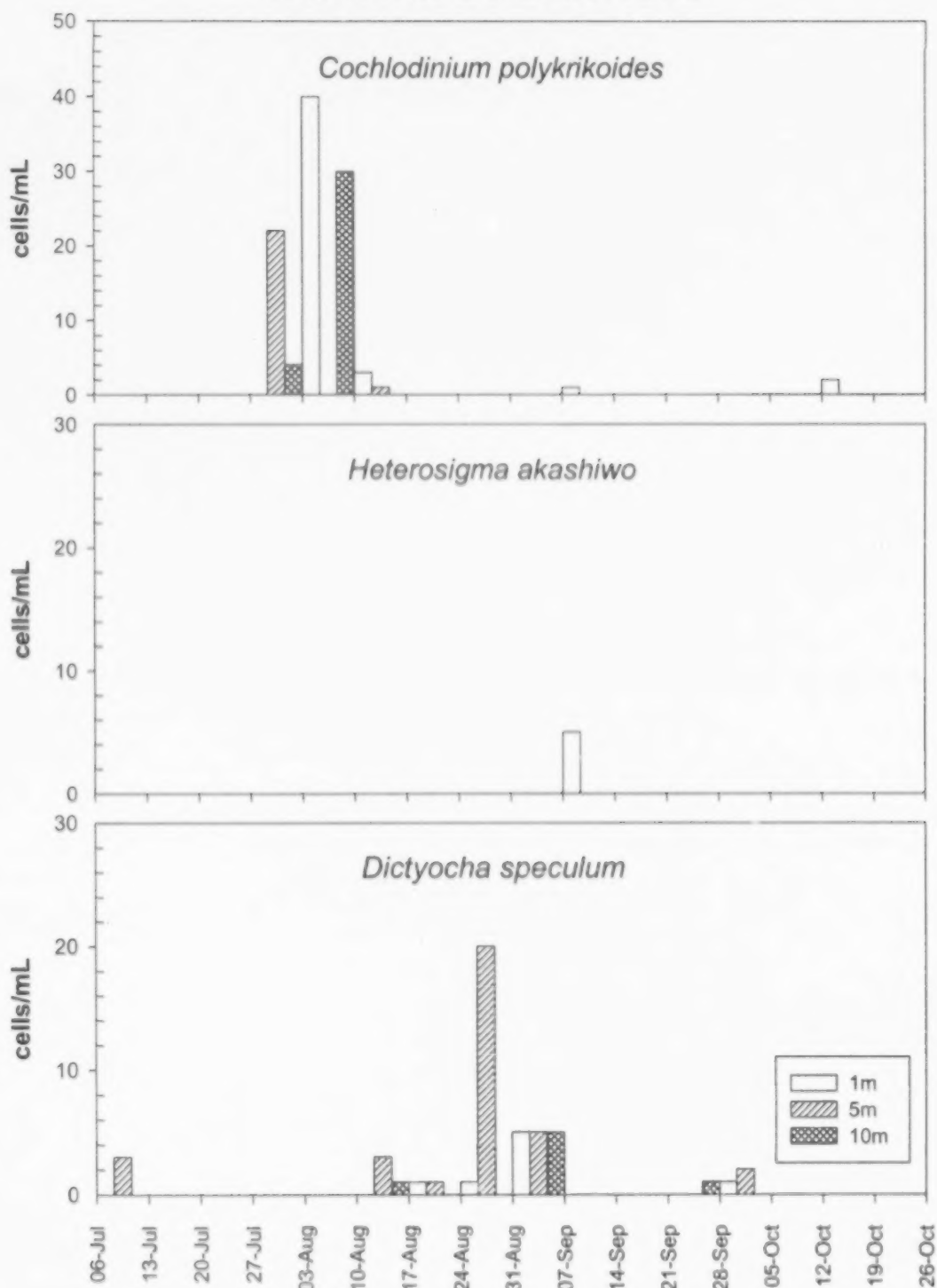


Figure 5: Harmful phytoplankton species in Simoom Sound samples.

VINER SOUND 1999

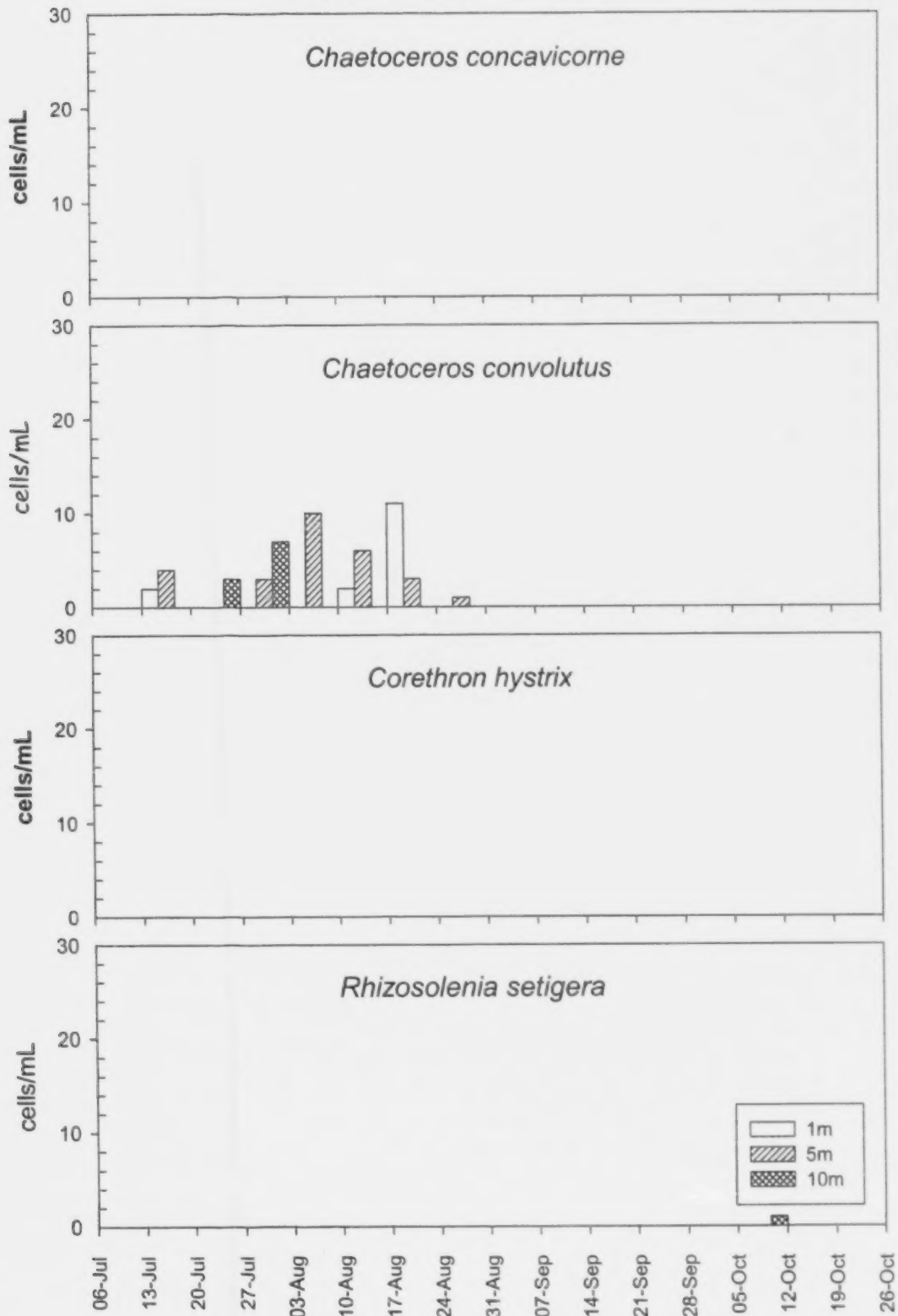


Figure 6: Harmful phytoplankton species in Viner Sound samples.

VINER SOUND 1999

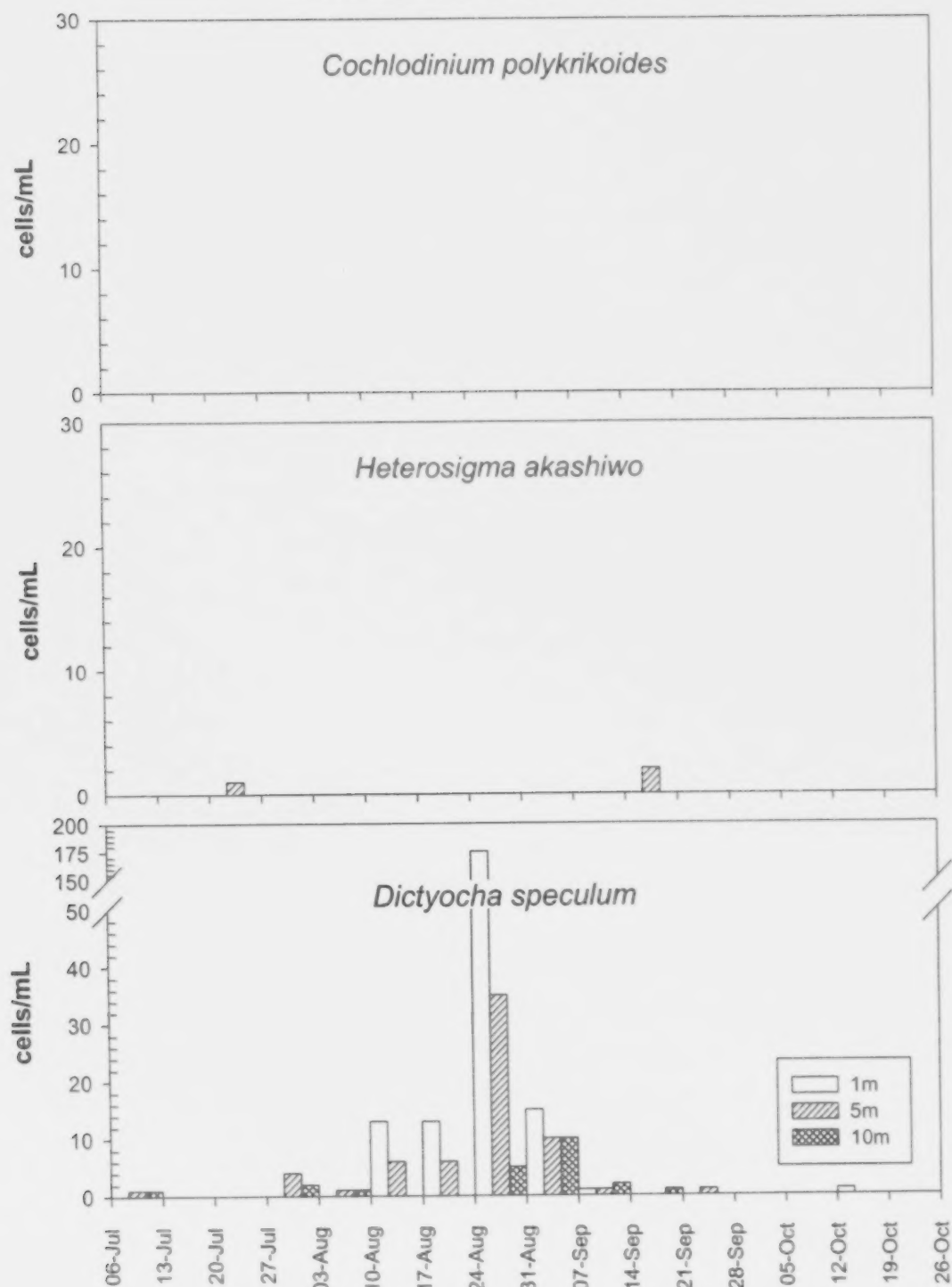


Figure 7: Harmful phytoplankton species in Viner Sound samples.

WARREN ISLANDS 1999

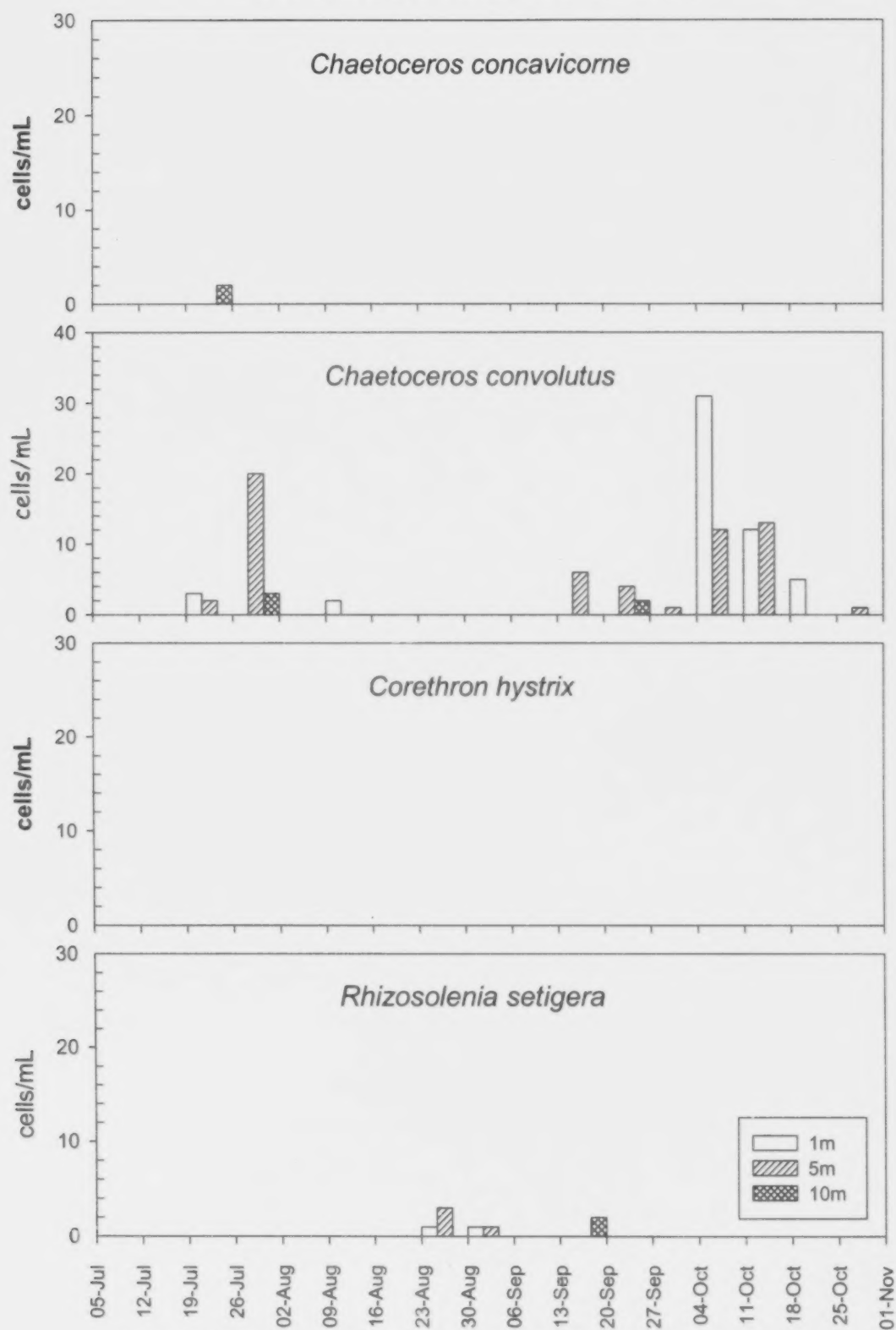


Figure 8: Harmful phytoplankton species in Warren Islands samples.

WARREN ISLANDS 1999

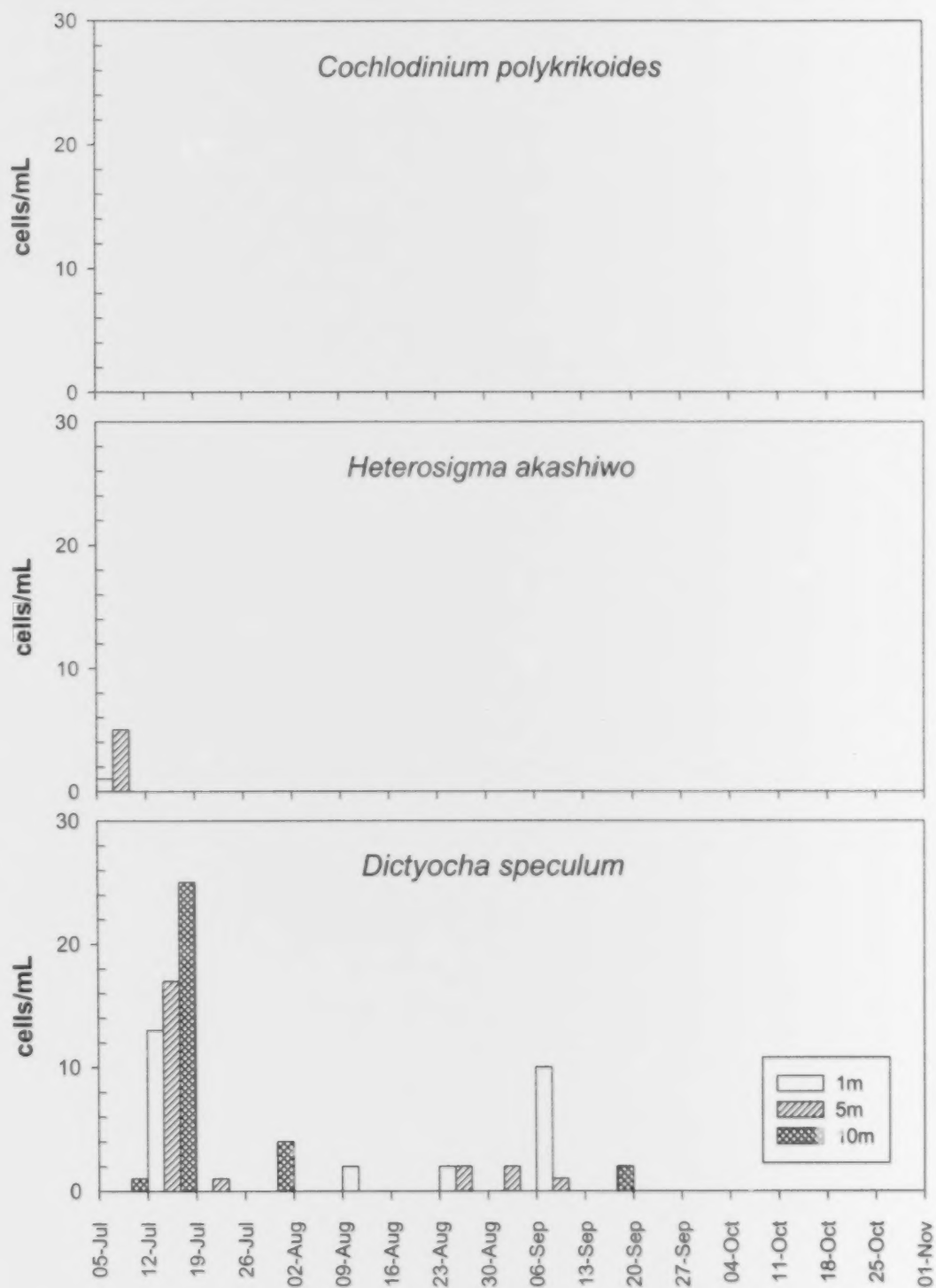


Figure 9: Harmful phytoplankton species in Warren Islands samples.

BOUGHY BAY 1999

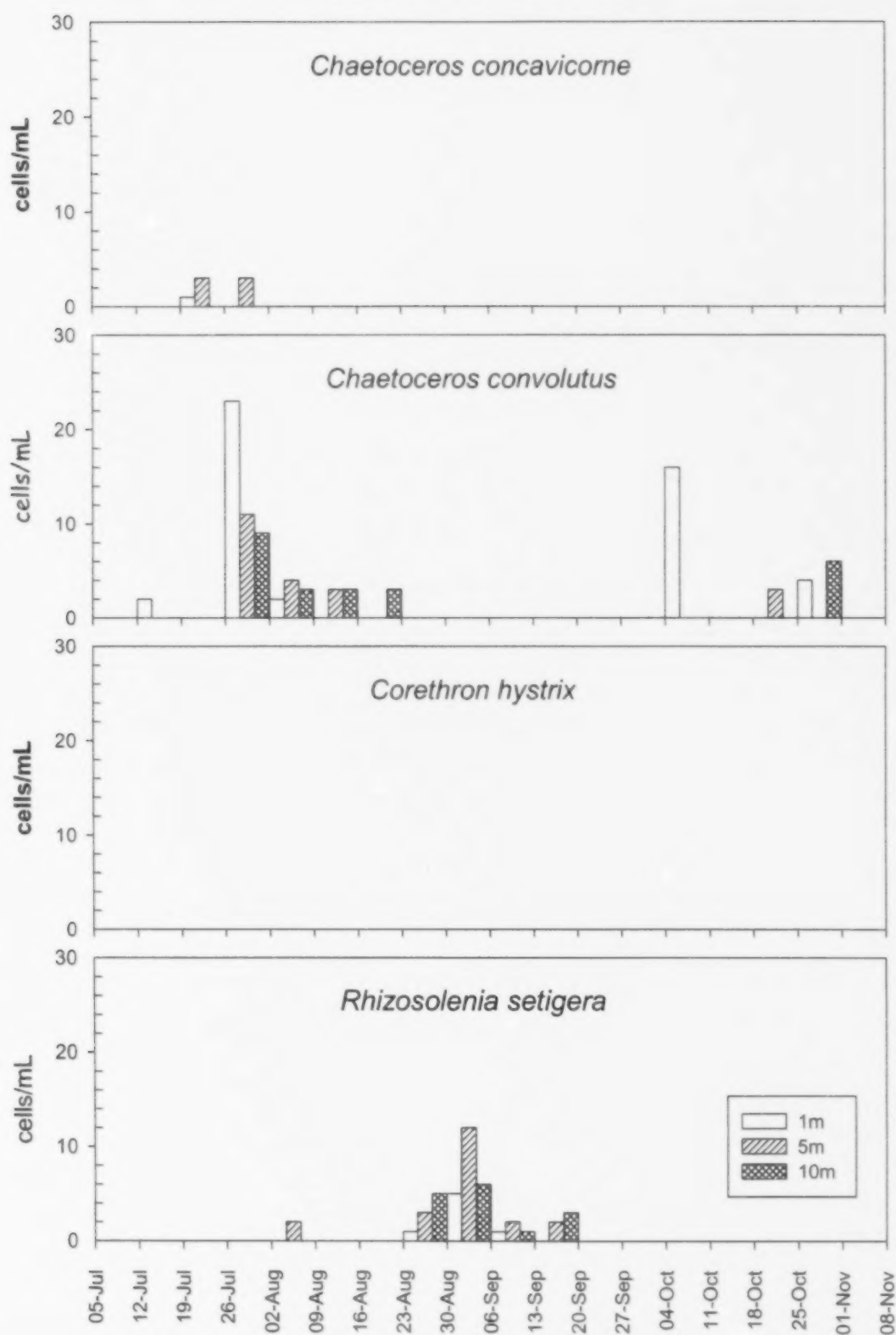


Figure 10: Harmful phytoplankton species in Boughy Bay samples.

BOUGHY BAY 1999

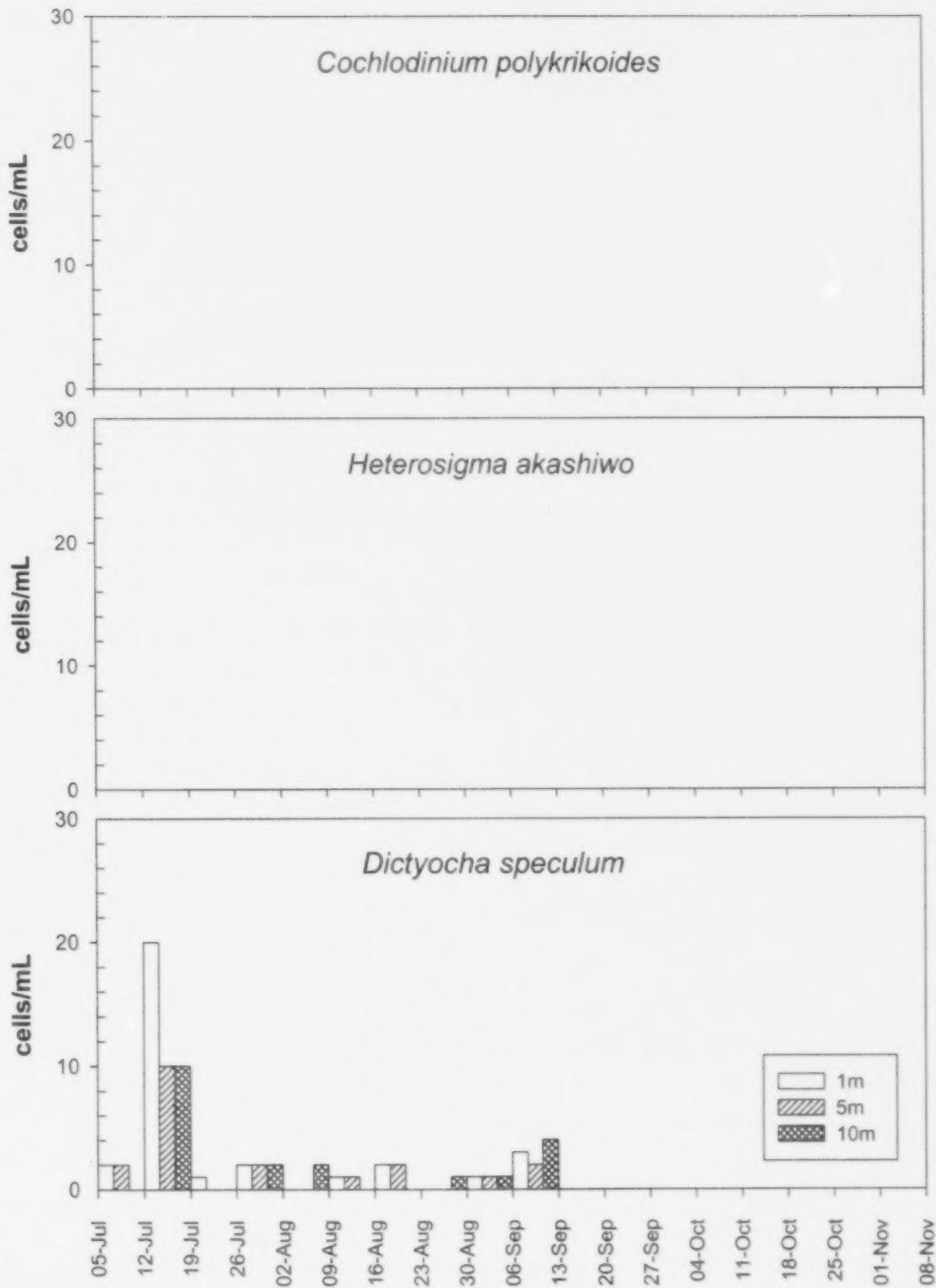


Figure 11: Harmful phytoplankton species in Boughy Bay samples.

CHANCELLOR CHANNEL 1999

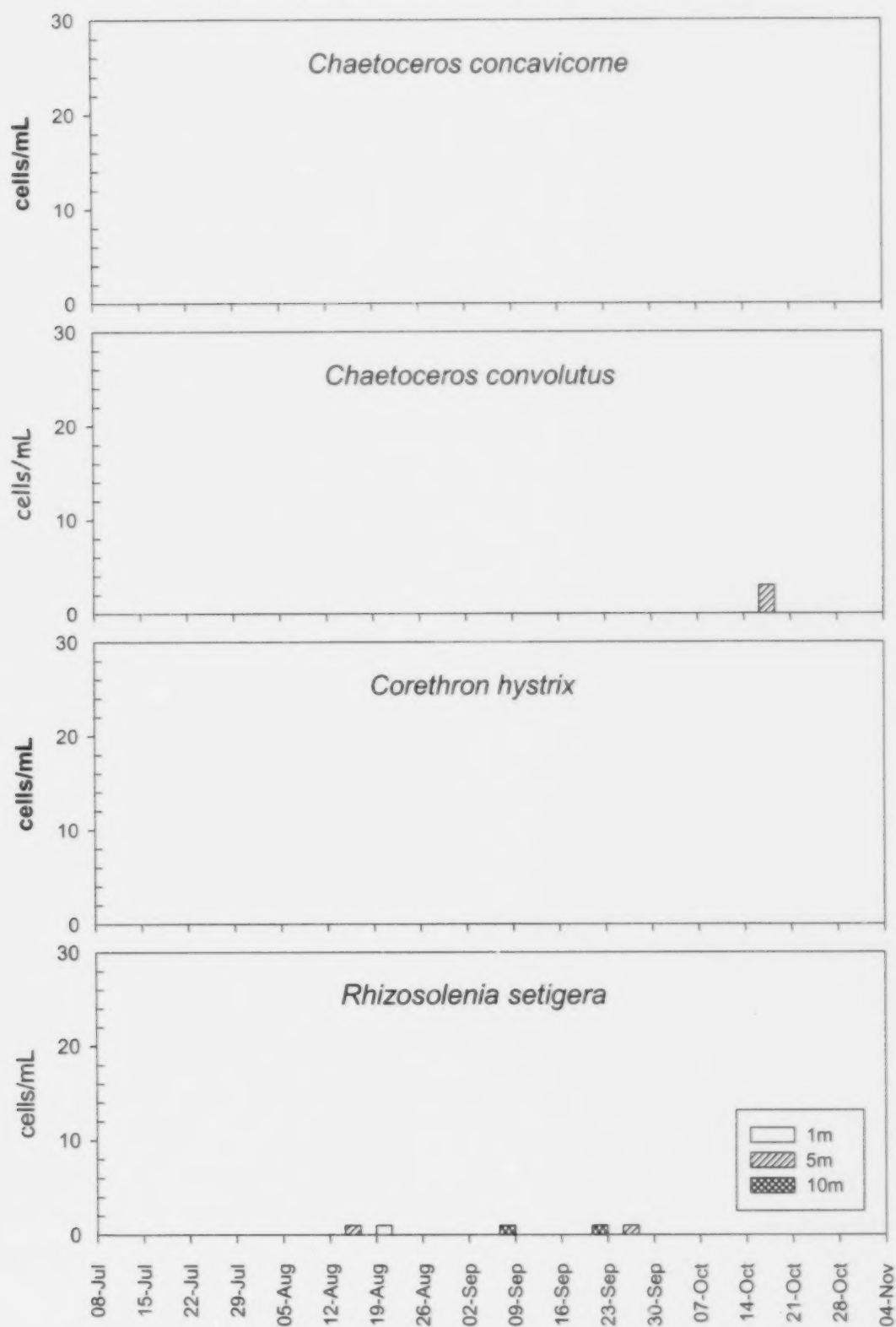


Figure 12: Harmful phytoplankton species in Chancellor Channel samples.

CHANCELLOR CHANNEL 1999

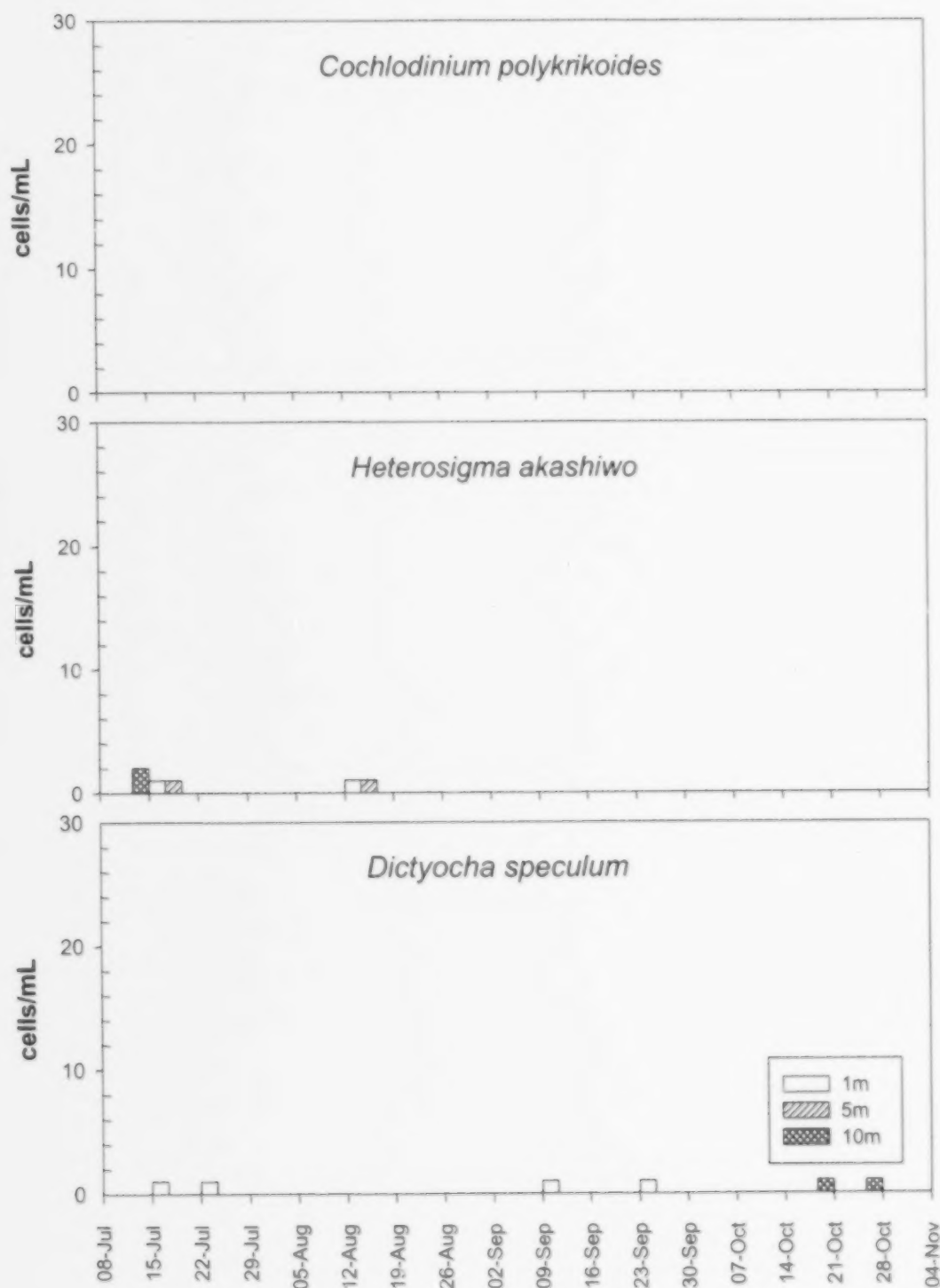


Figure 13: Harmful phytoplankton species in Chancellor Channel samples.

HOMFRAY CREEK 1999

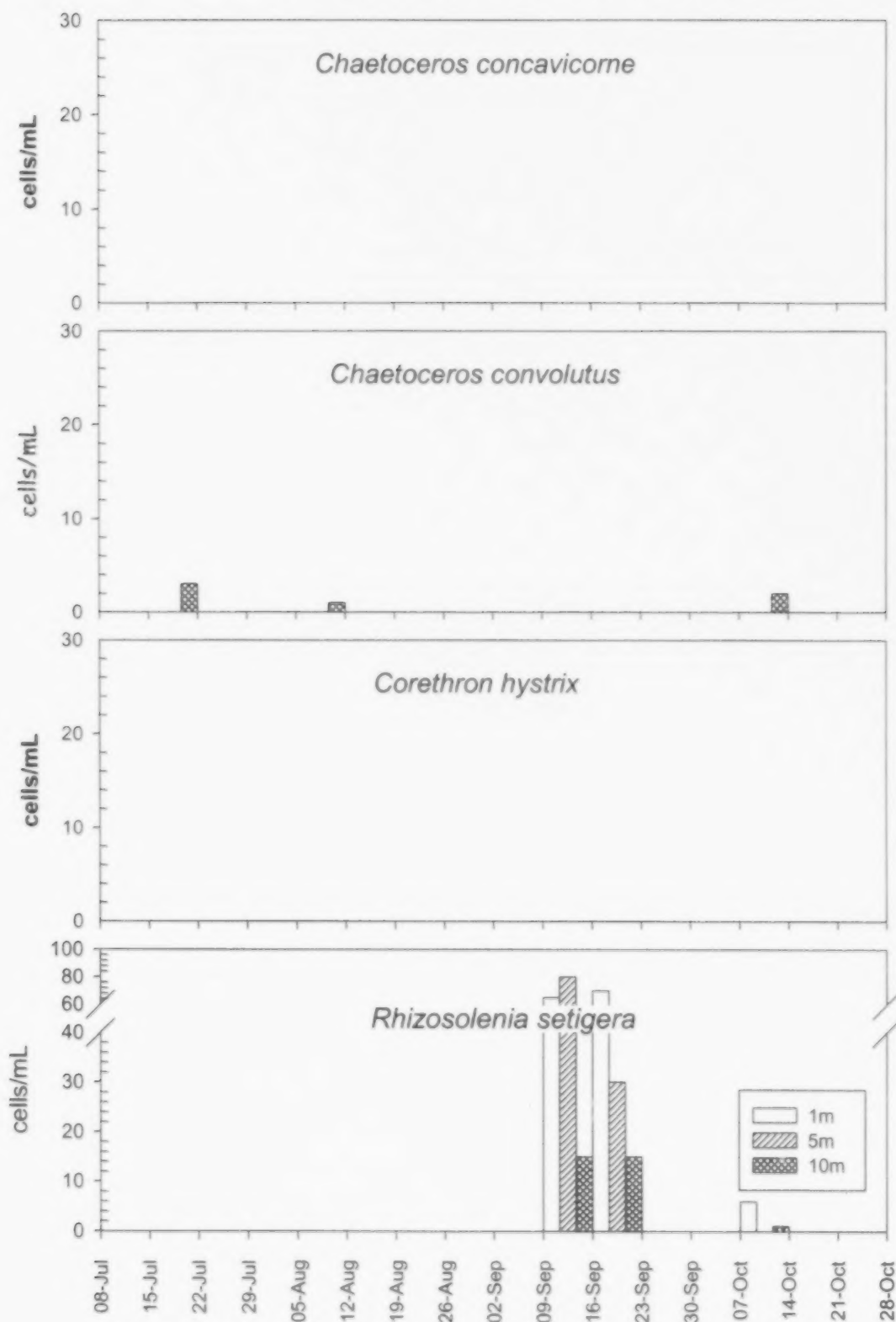


Figure 14: Harmful phytoplankton species in Homfray Creek samples.

HOMFRAY CREEK 1999

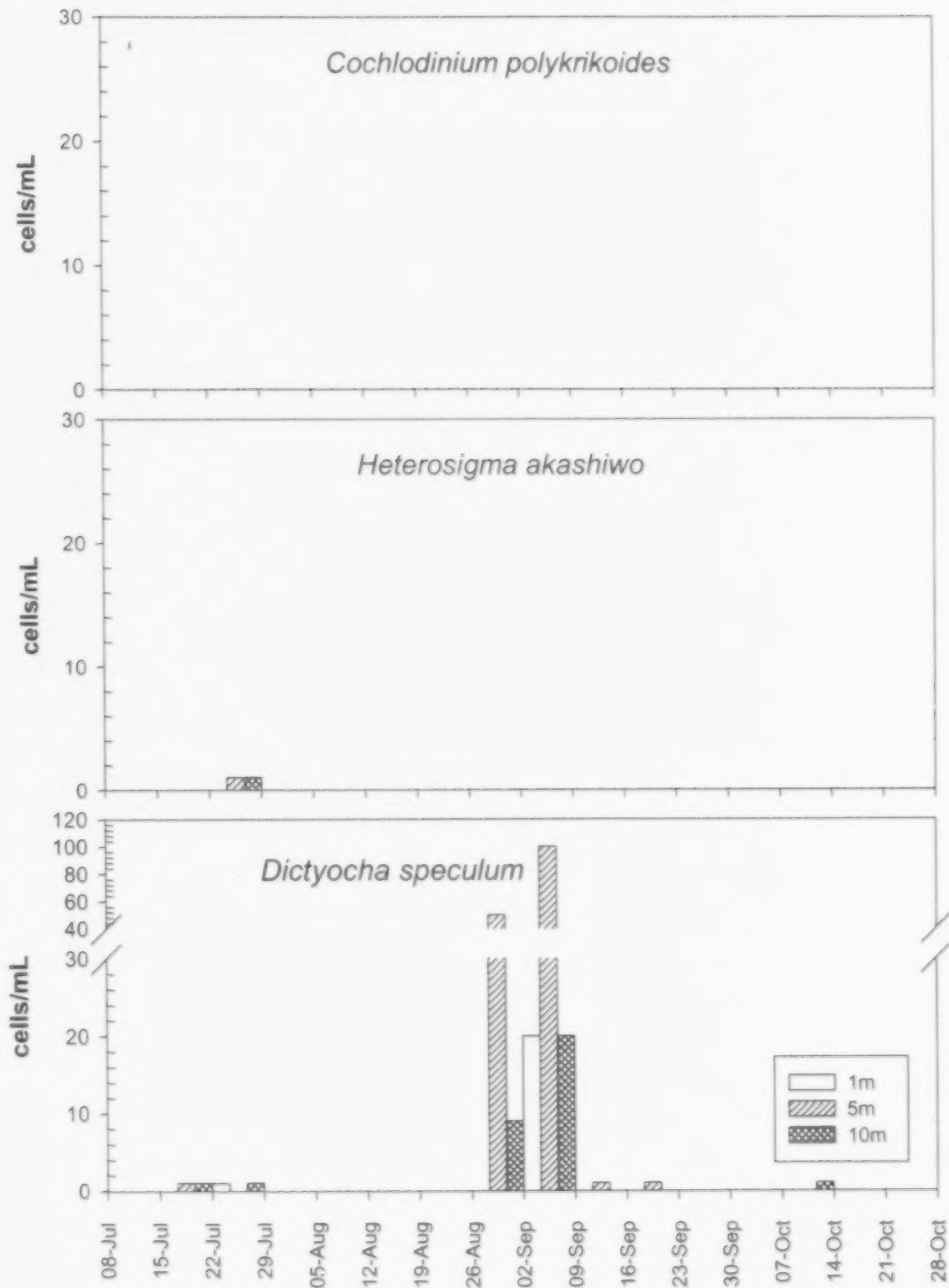


Figure 15: Harmful phytoplankton species in Homfray Creek samples.

GLACIAL CREEK 1999

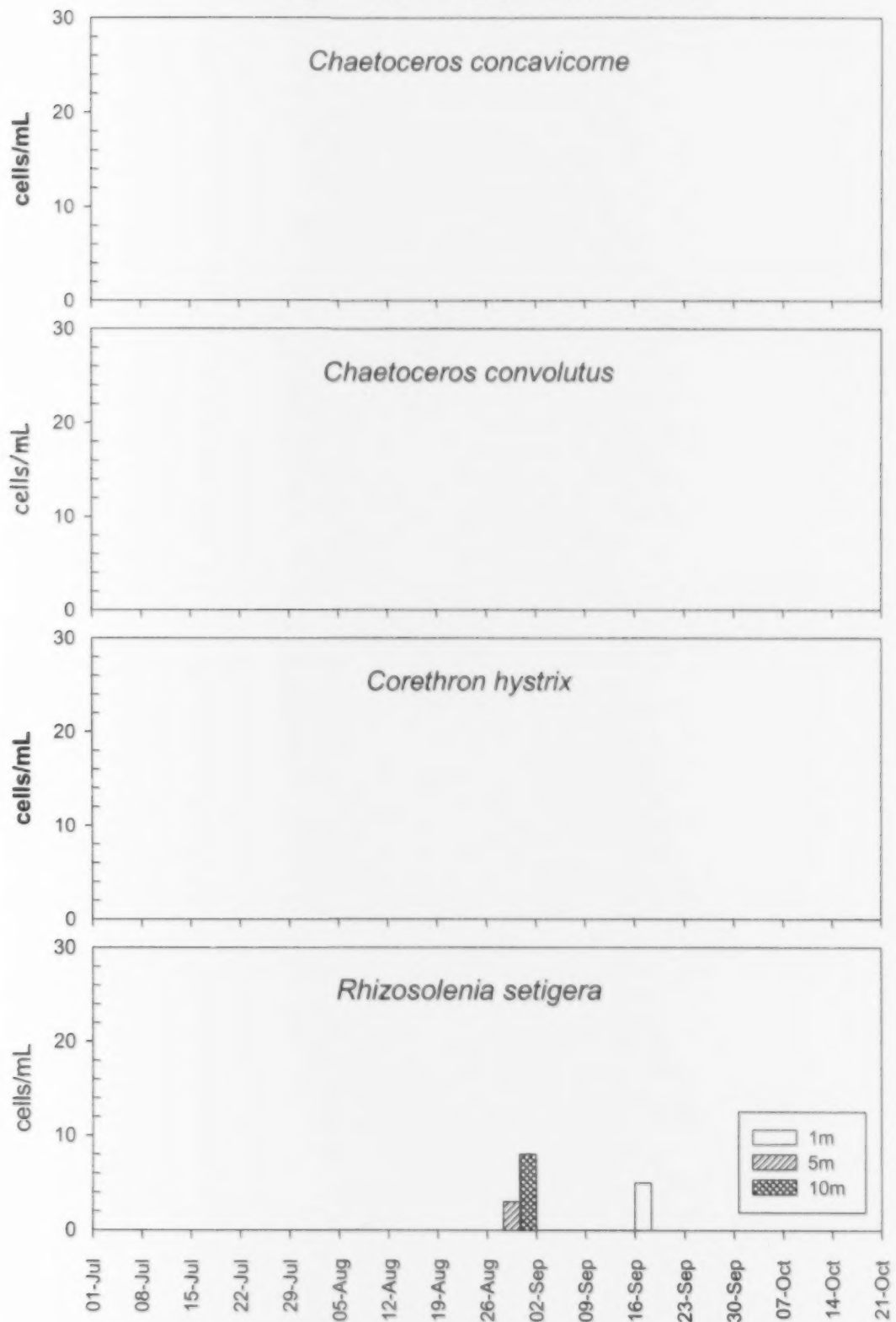


Figure 16: Harmful phytoplankton species in Glacial Creek samples.

GLACIAL CREEK 1999

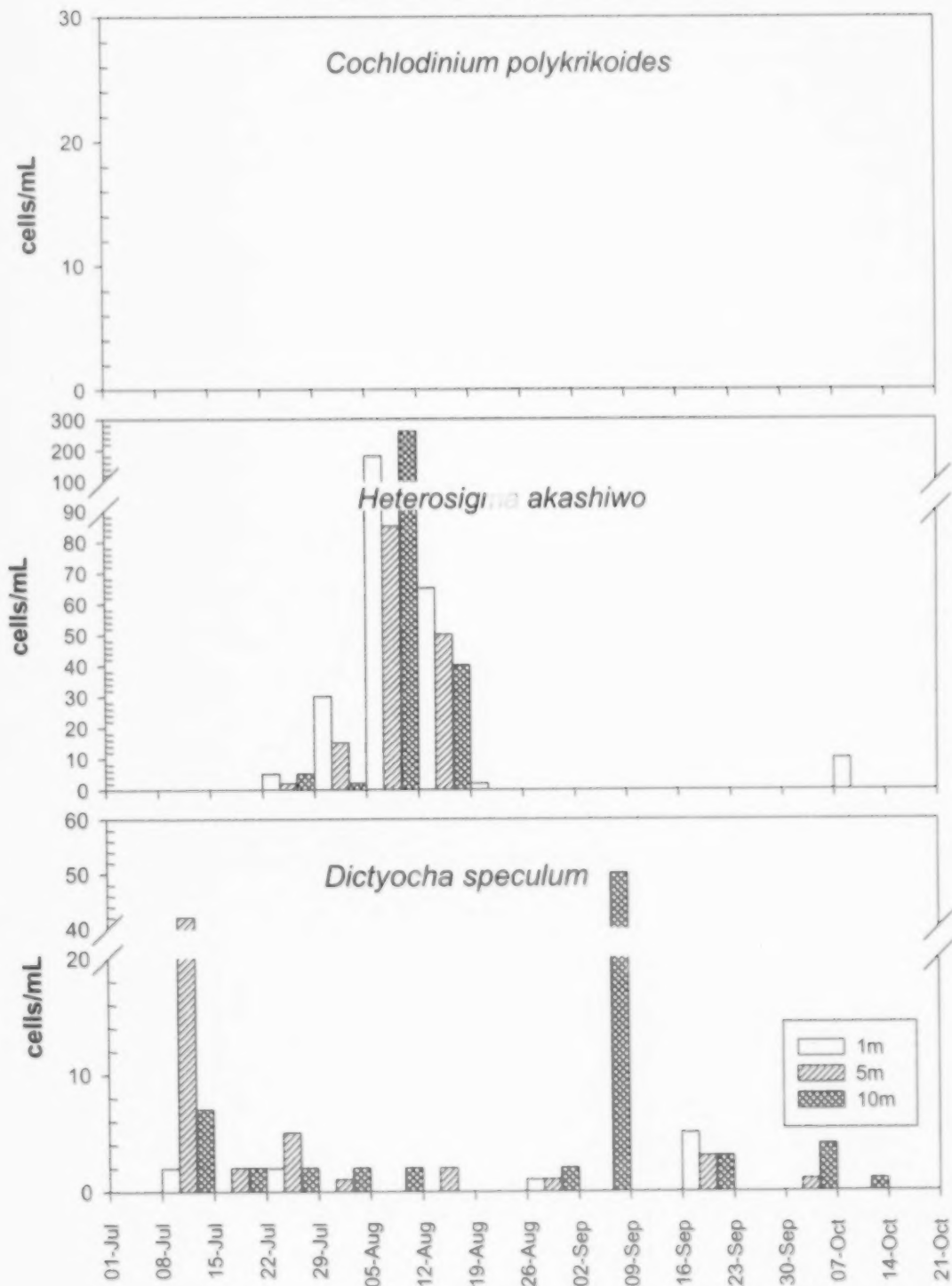


Figure 17: Harmful phytoplankton species in Glacial Creek samples.

PRETTY GIRL COVE 1999

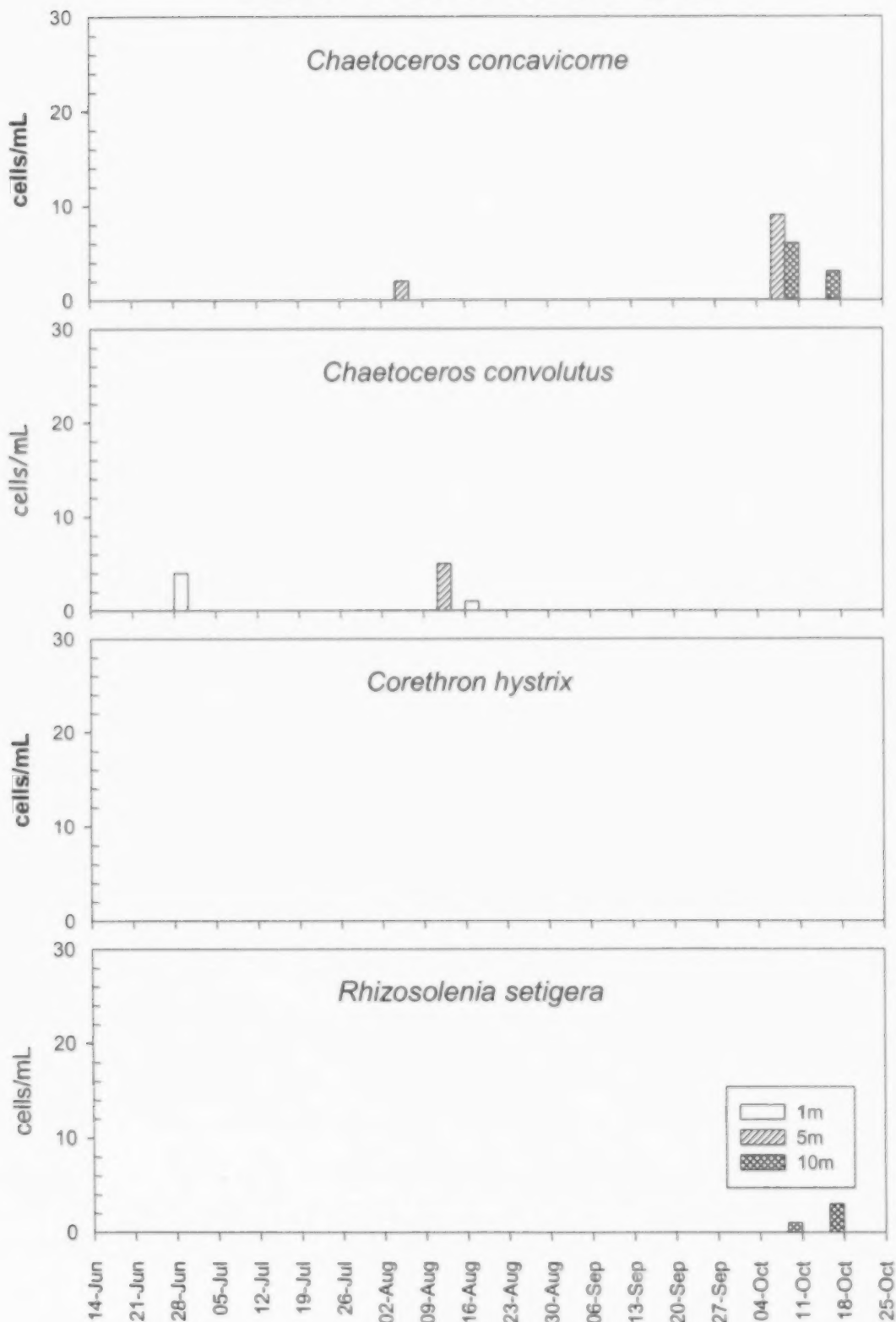


Figure 18: Harmful phytoplankton species in Pretty Girl Cove samples.

PRETTY GIRL COVE 1999

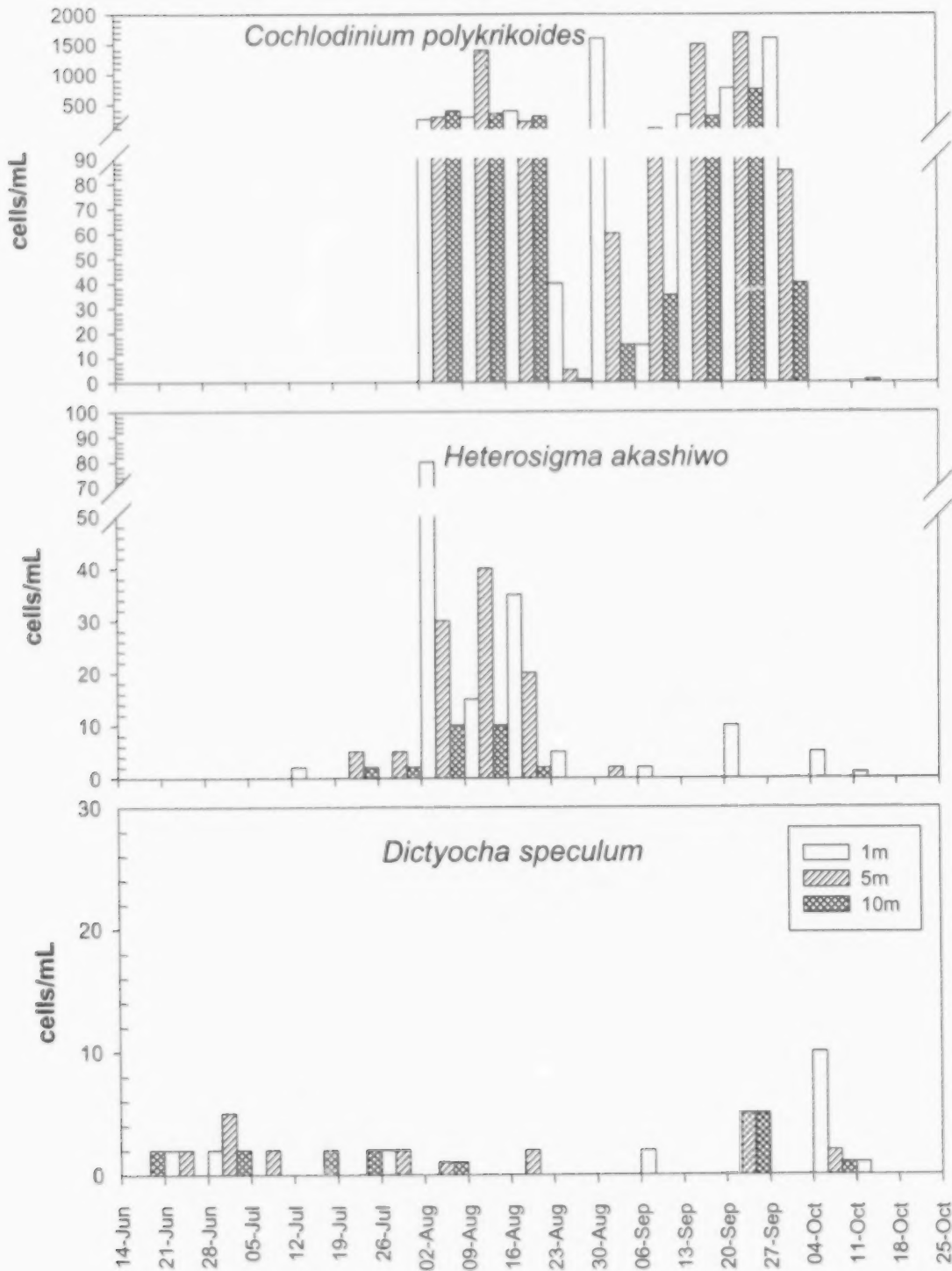


Figure 19: Harmful phytoplankton species in Pretty Girl Cove samples.

BACCHANTE BAY 1999

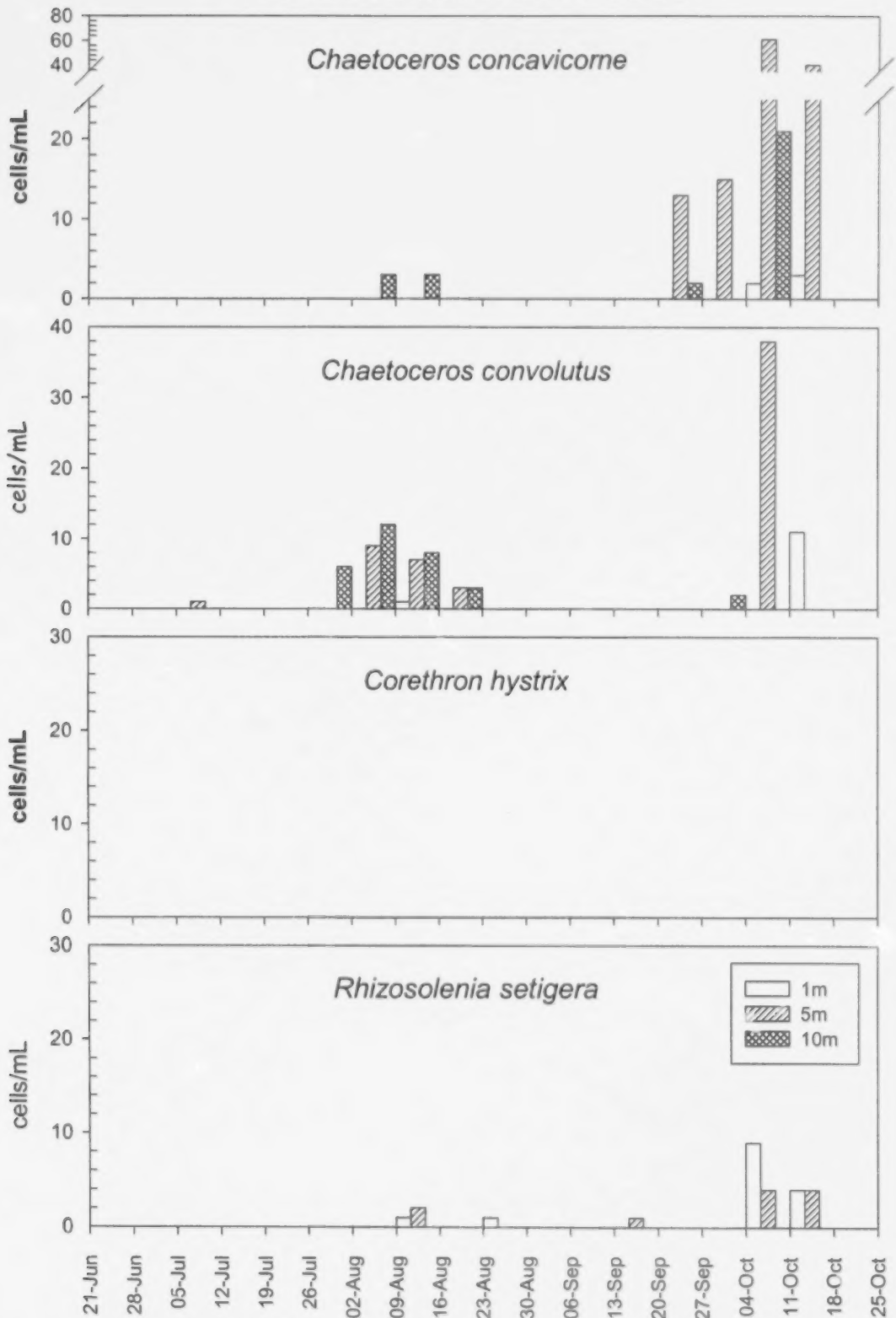


Figure 20: Harmful phytoplankton species in Bacchante Bay samples.

BACCHANTE BAY 1999

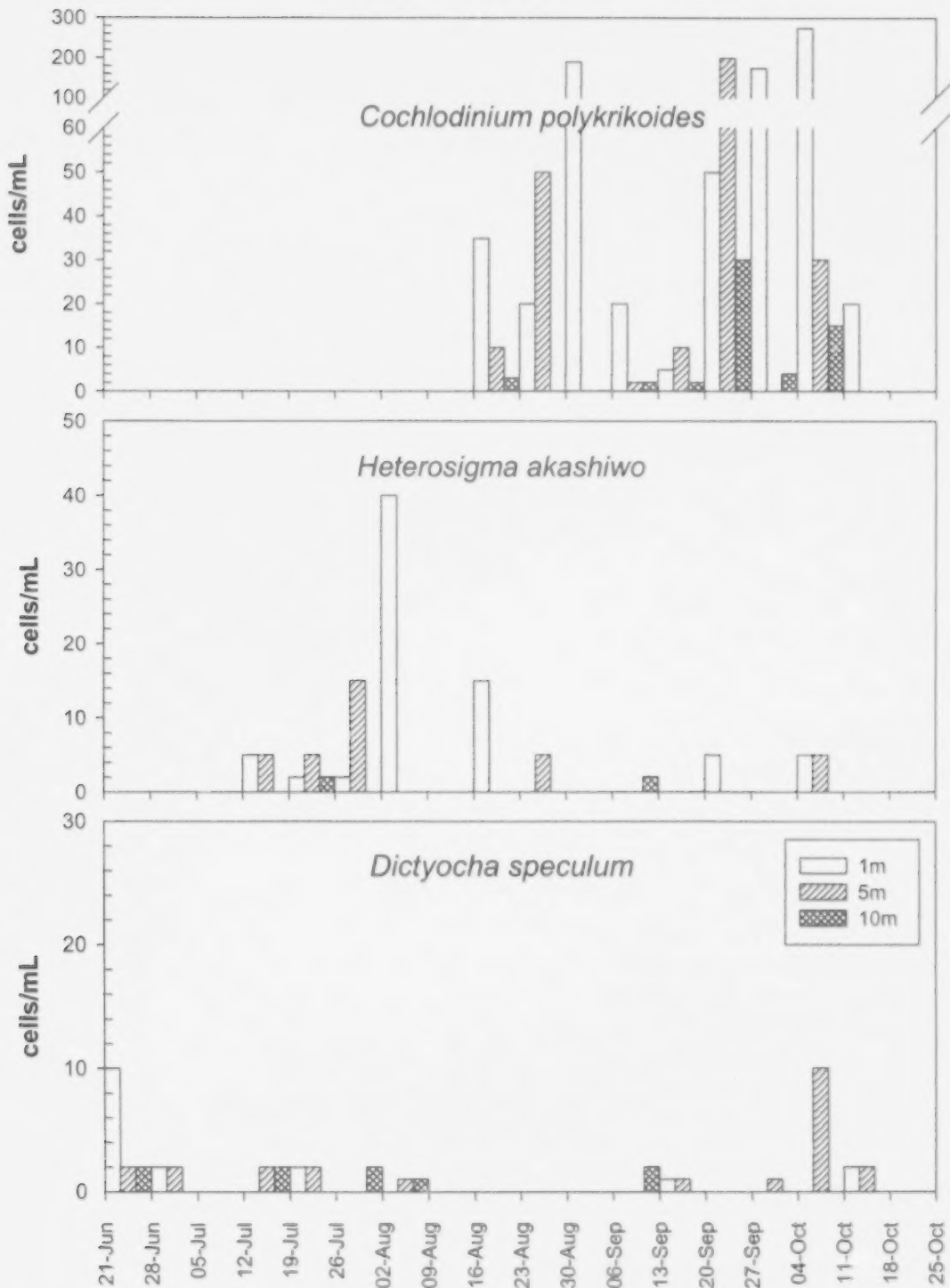


Figure 21: Harmful phytoplankton species in Bacchante Bay samples.

SHELTER CHANNEL 1999

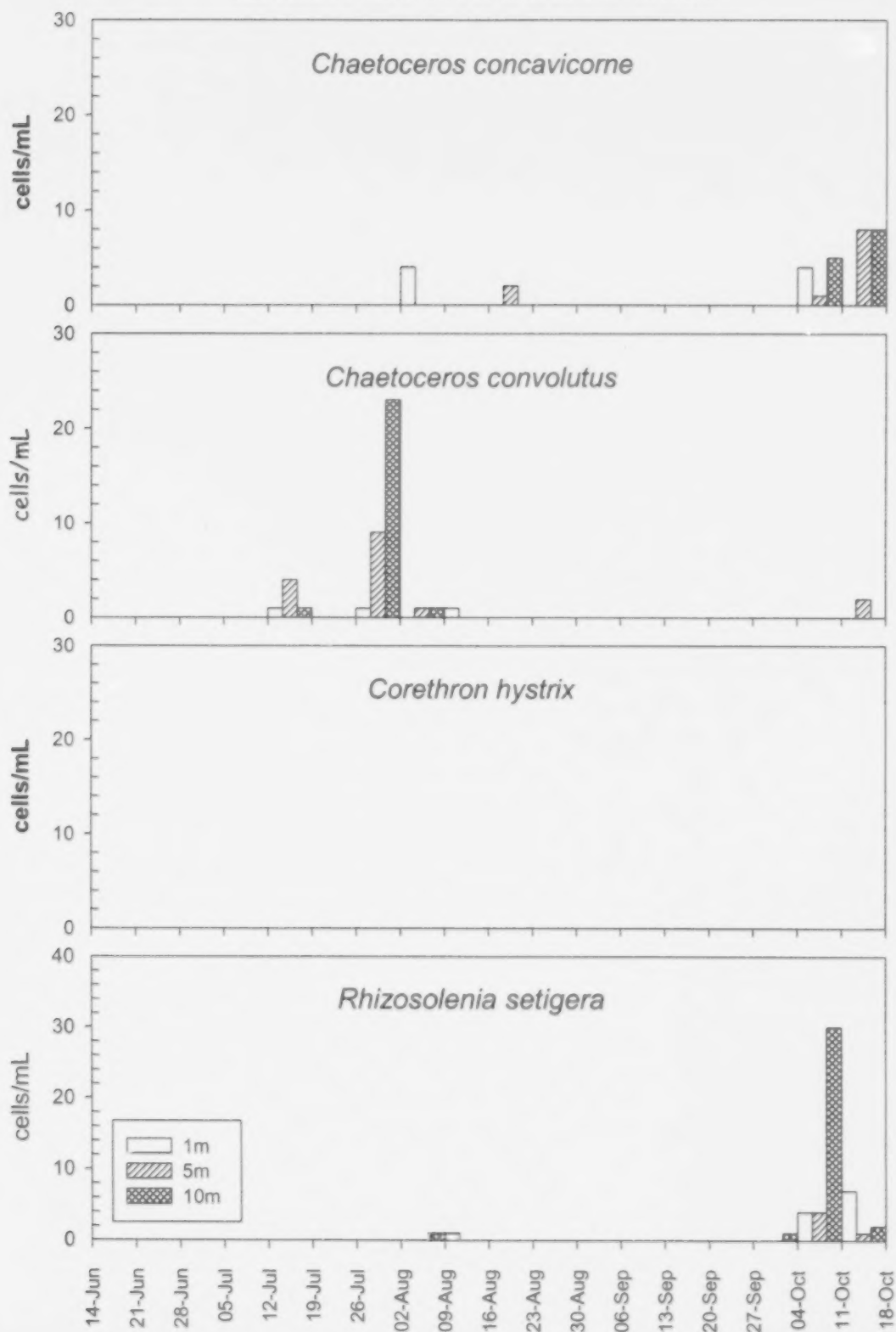


Figure 22: Harmful phytoplankton species in Shelter Channel samples.

SHELTER CHANNEL 1999

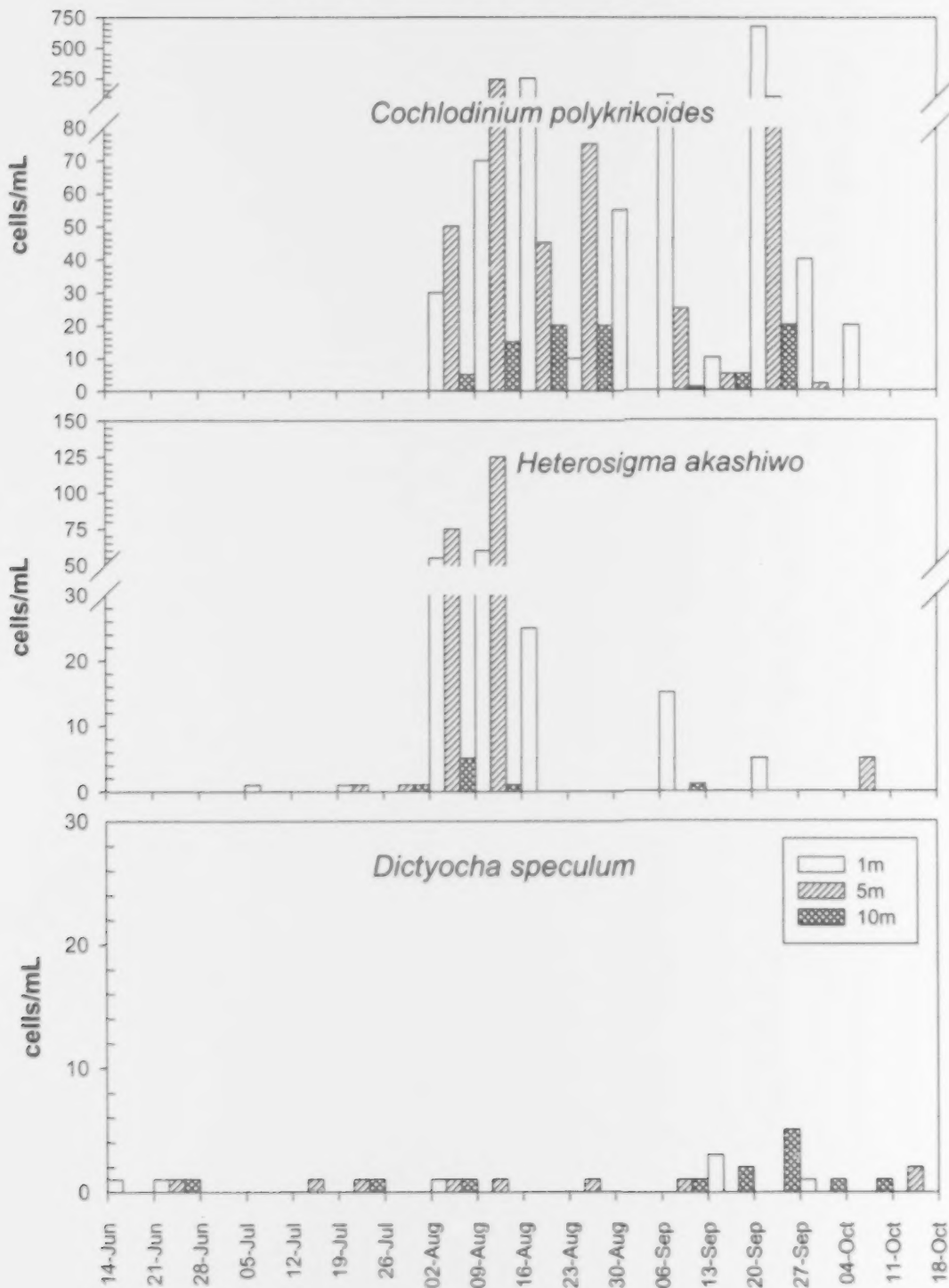


Figure 23: Harmful phytoplankton species in Shelter Channel samples.

MICHAELSON ROCKS 1999

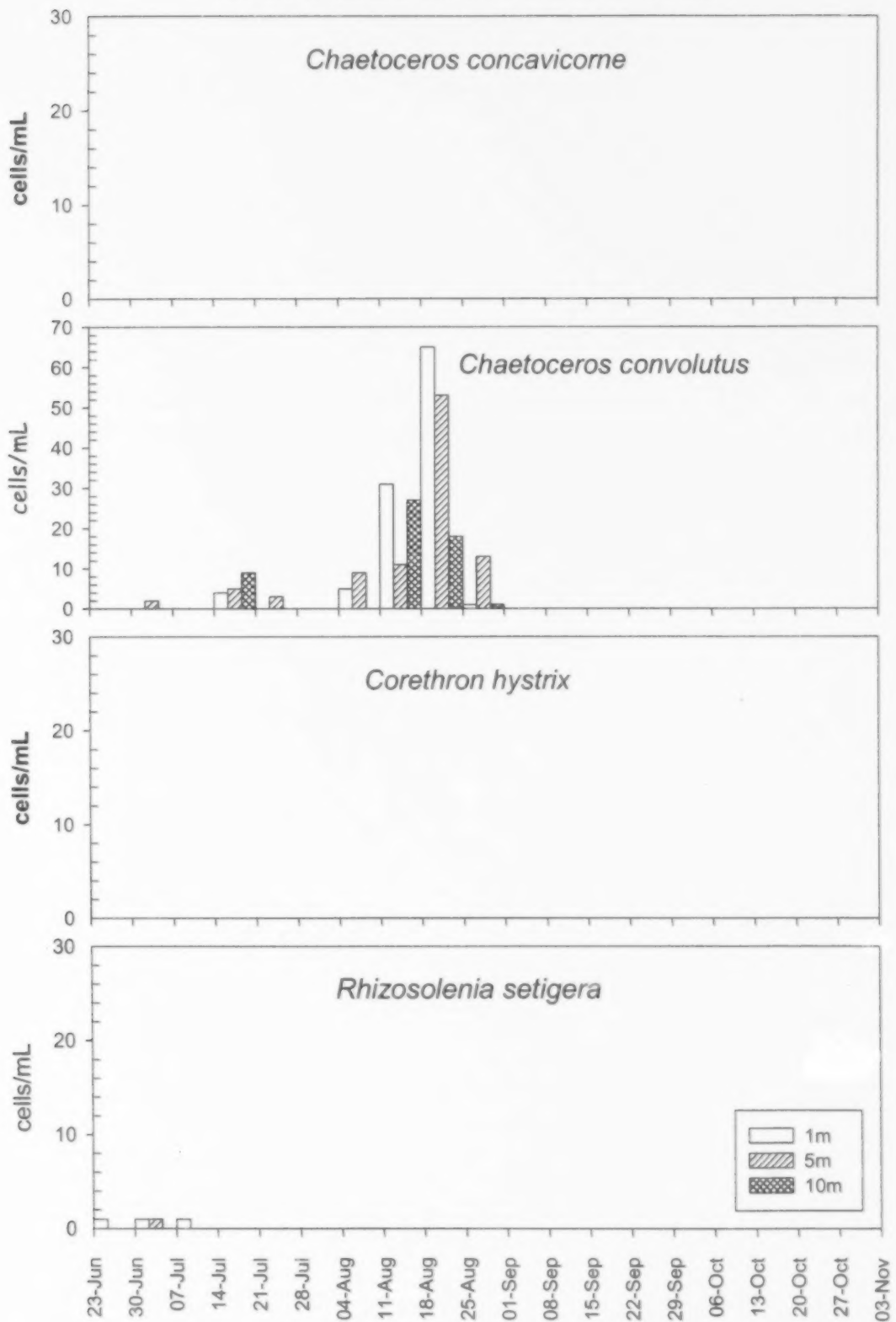


Figure 24: Harmful phytoplankton species in Michaelson Rocks samples.

MICHAELSON ROCKS 1999

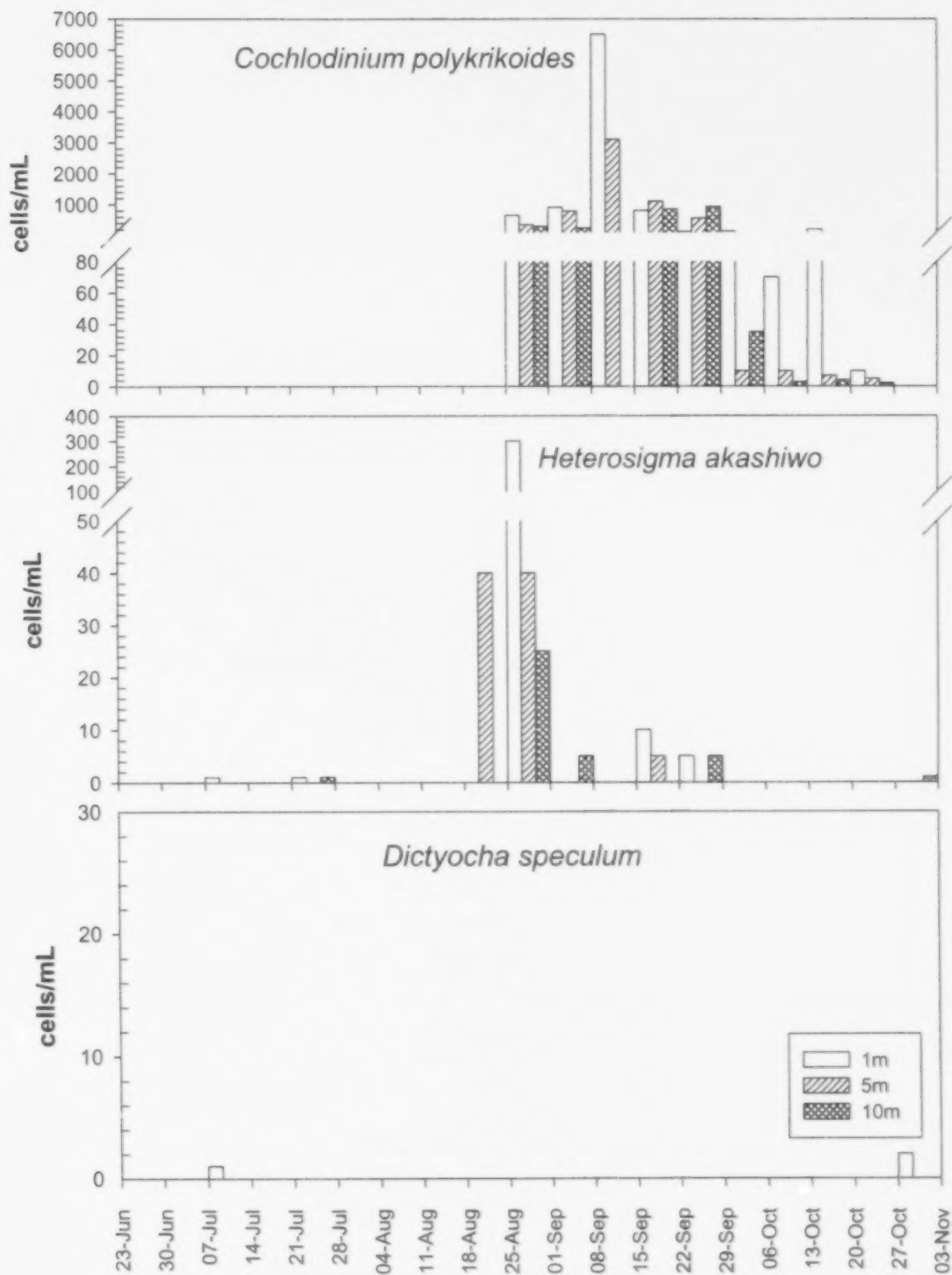


Figure 25: Harmful phytoplankton species in Michaelson Rocks samples.

THORPE POINT 1999

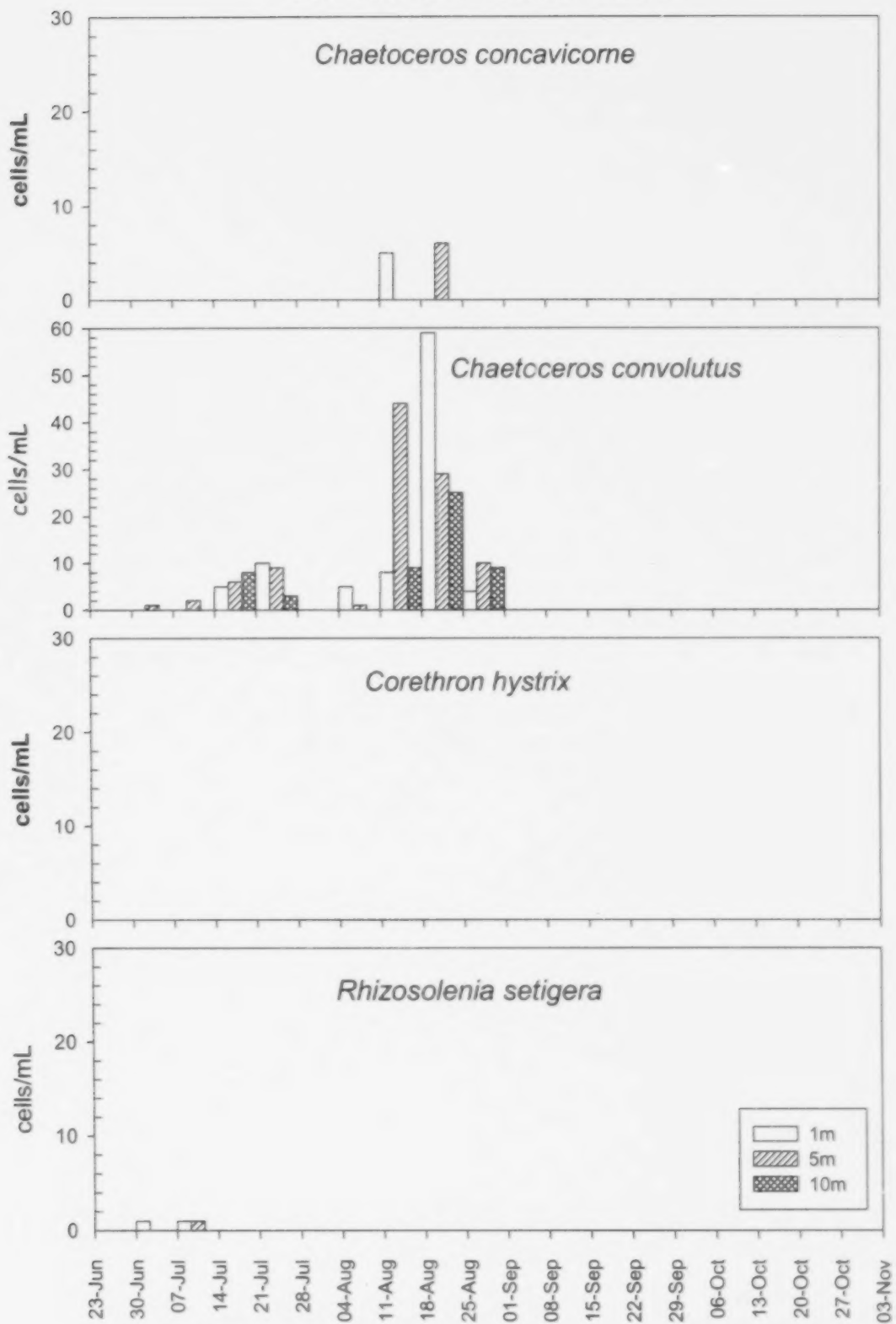


Figure 26: Harmful phytoplankton species in Thorpe Point samples.

THORPE POINT 1999

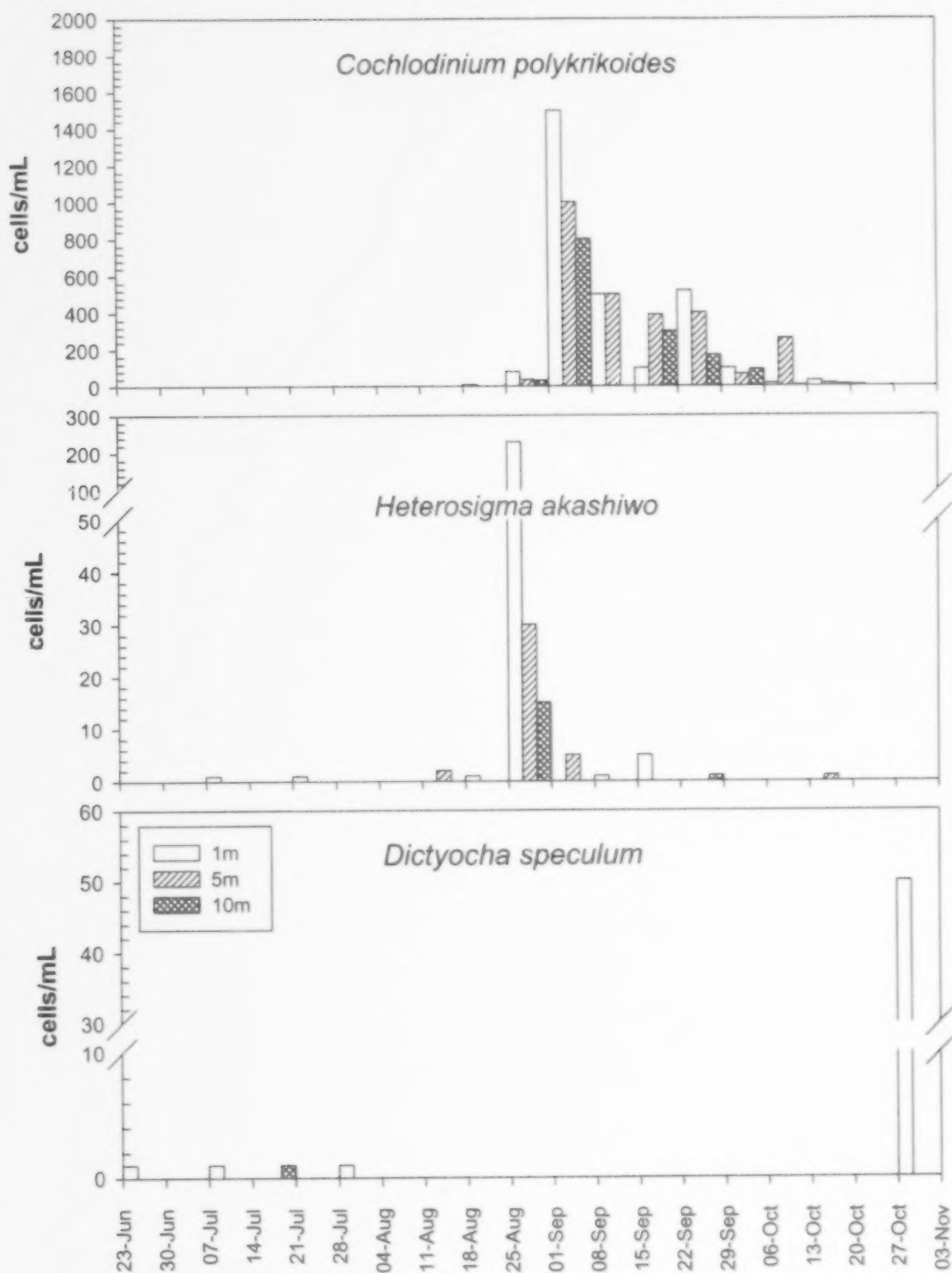


Figure 27: Harmful phytoplankton species in Thorpe Point samples.

COAL HARBOUR 1999

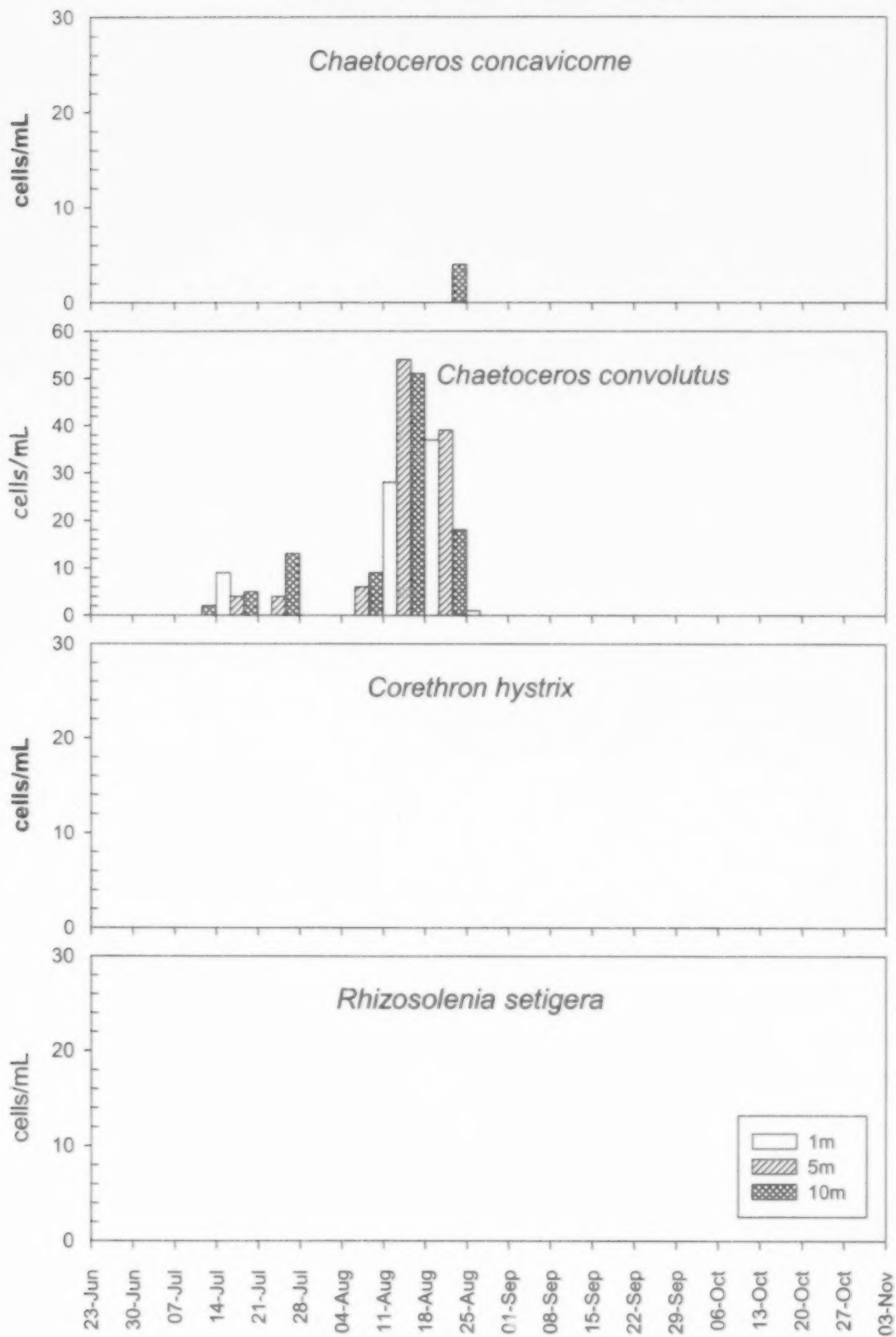


Figure 28: Harmful phytoplankton species in Coal Harbour samples.

COAL HARBOUR 1999

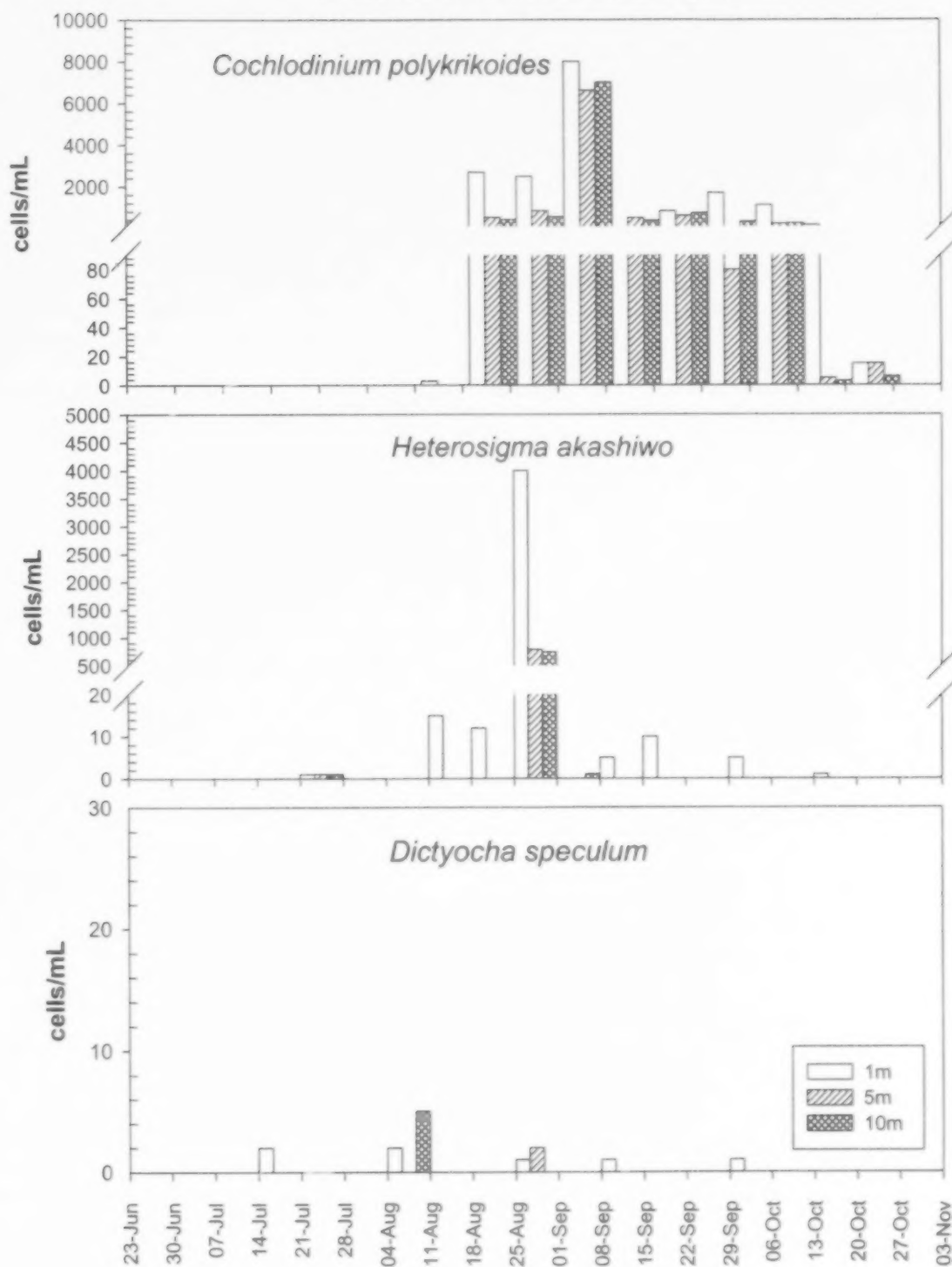


Figure 29: Harmful phytoplankton species in Coal Harbour samples.

KOPRINO HARBOUR 1999

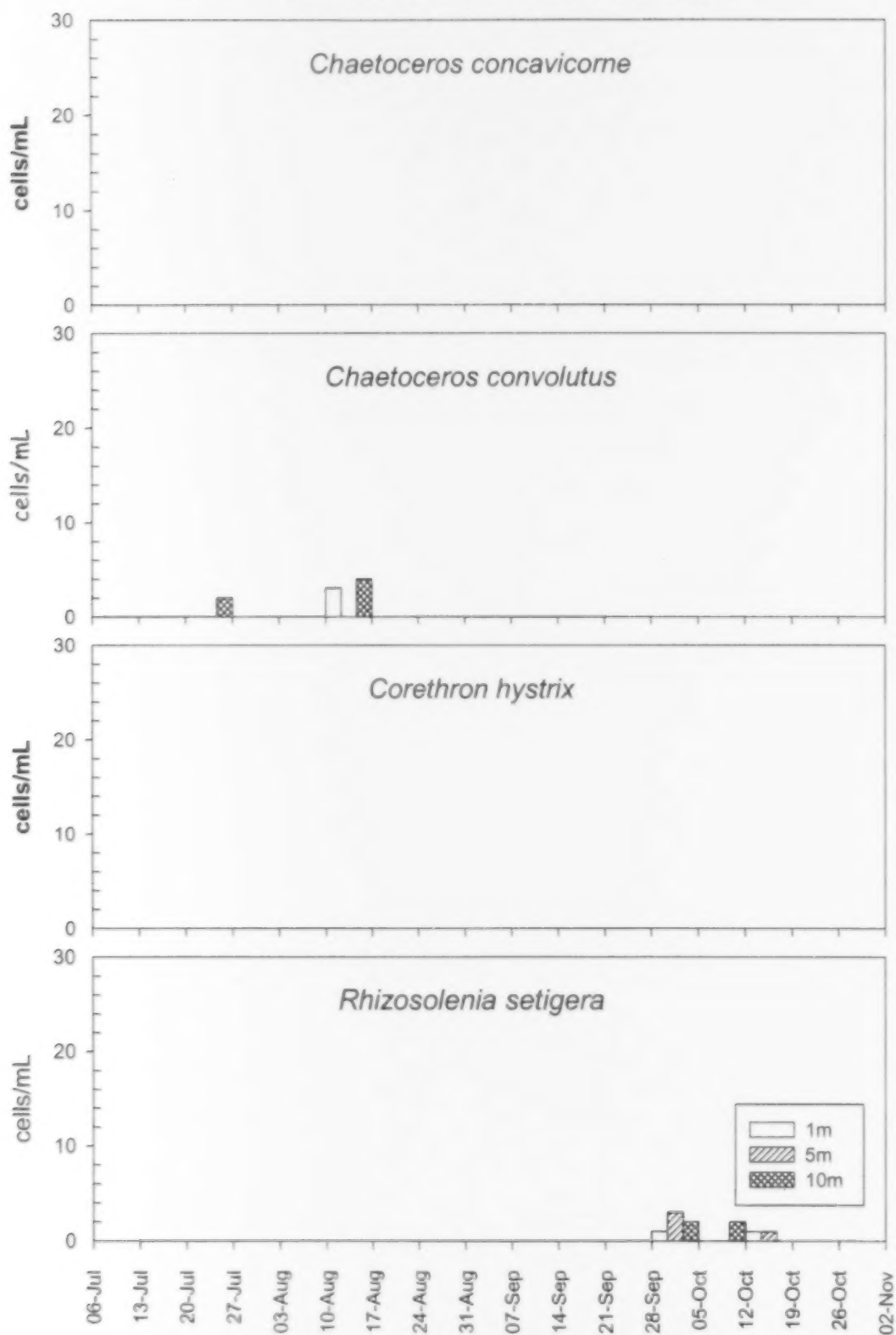


Figure 30: Harmful phytoplankton species in Koprino Harbour samples.

KOPRINO HARBOUR 1999

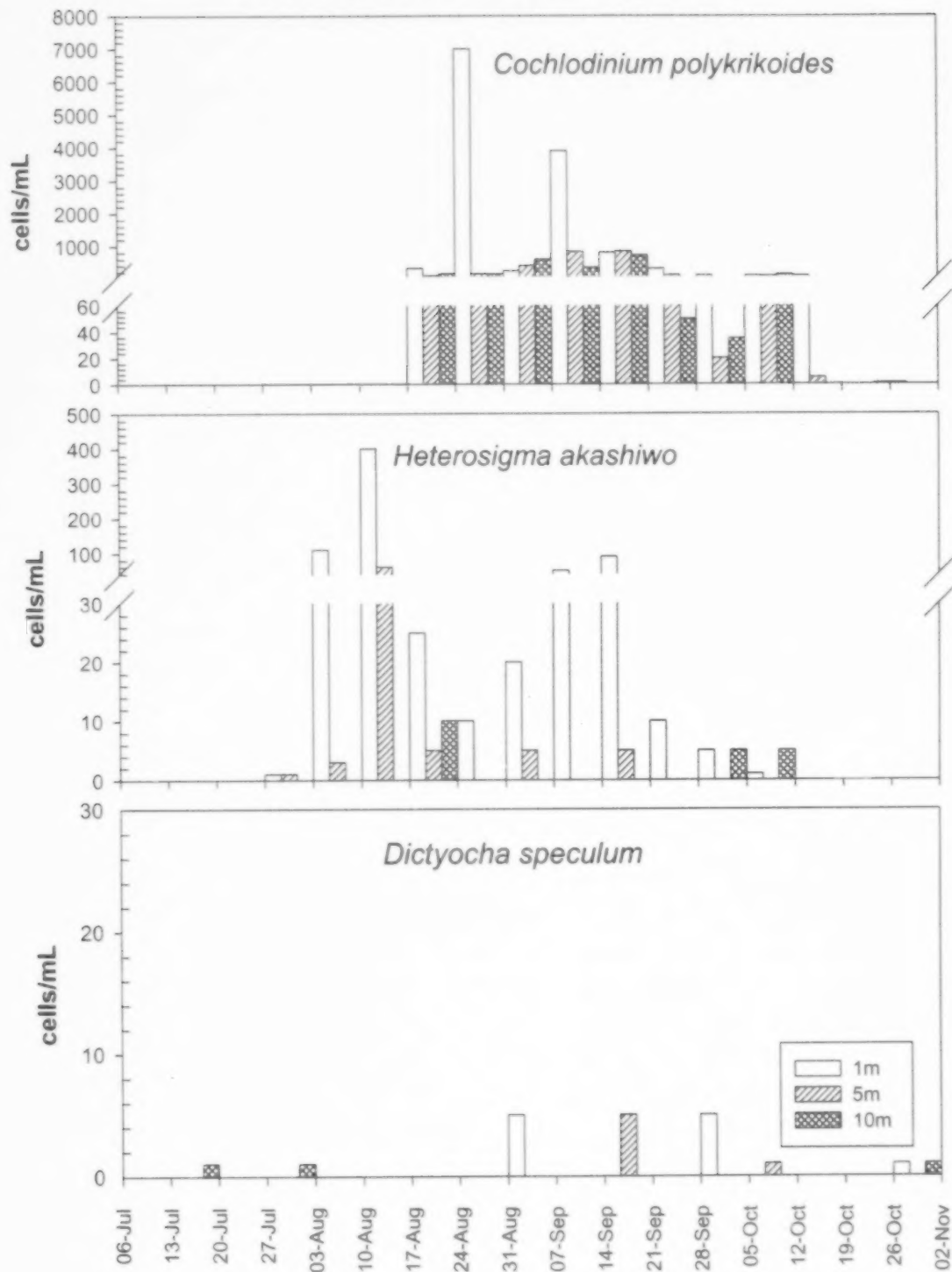


Figure 31: Harmful phytoplankton species in Koprino Harbour samples.

KOSKIMO BAY 1999

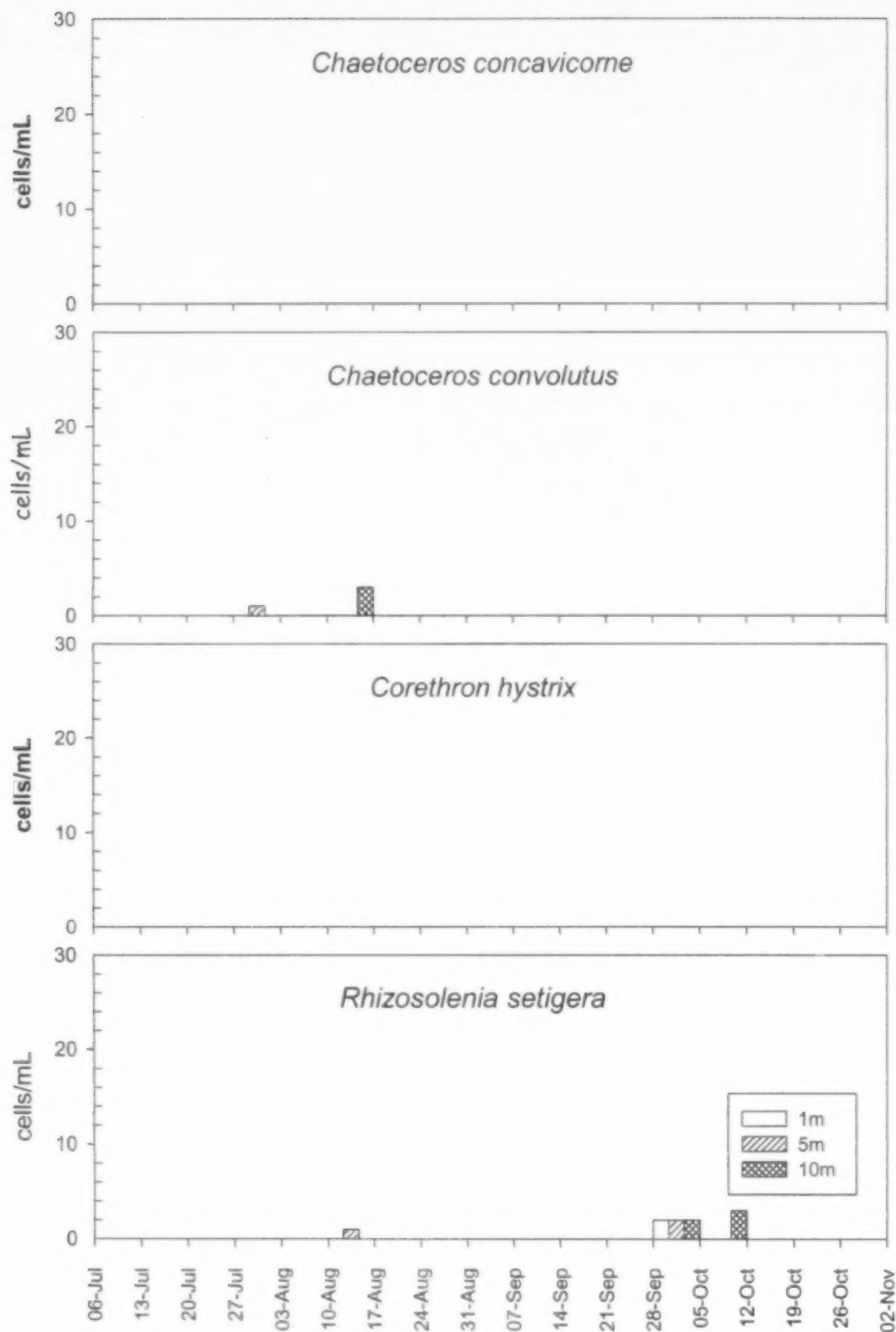


Figure 32: Harmful phytoplankton species in Koskimo Bay samples.

KOSKIMO BAY 1999

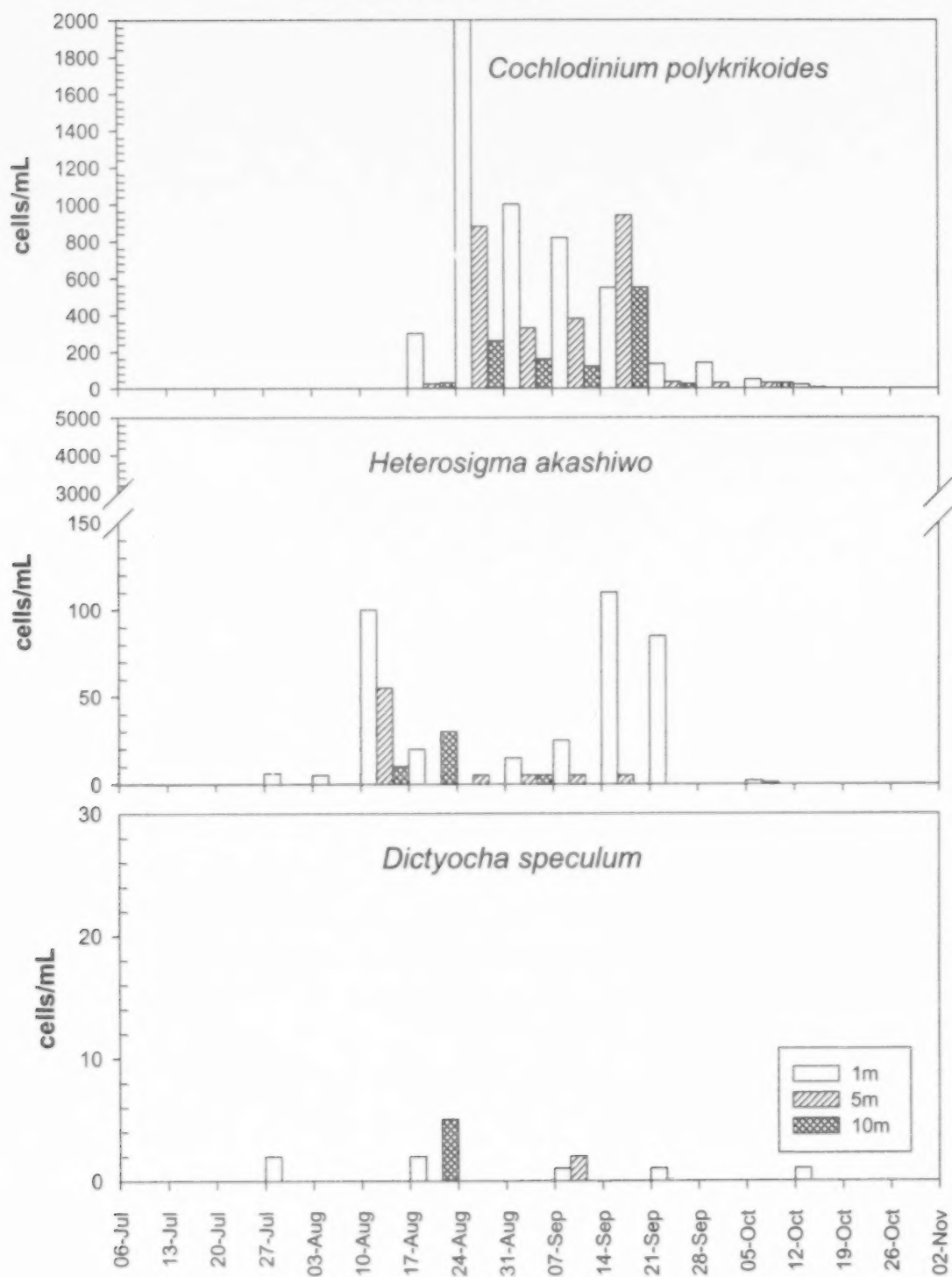


Figure 33: Harmful phytoplankton species in Koskimo Bay samples.

CLEAGH CREEK 1999

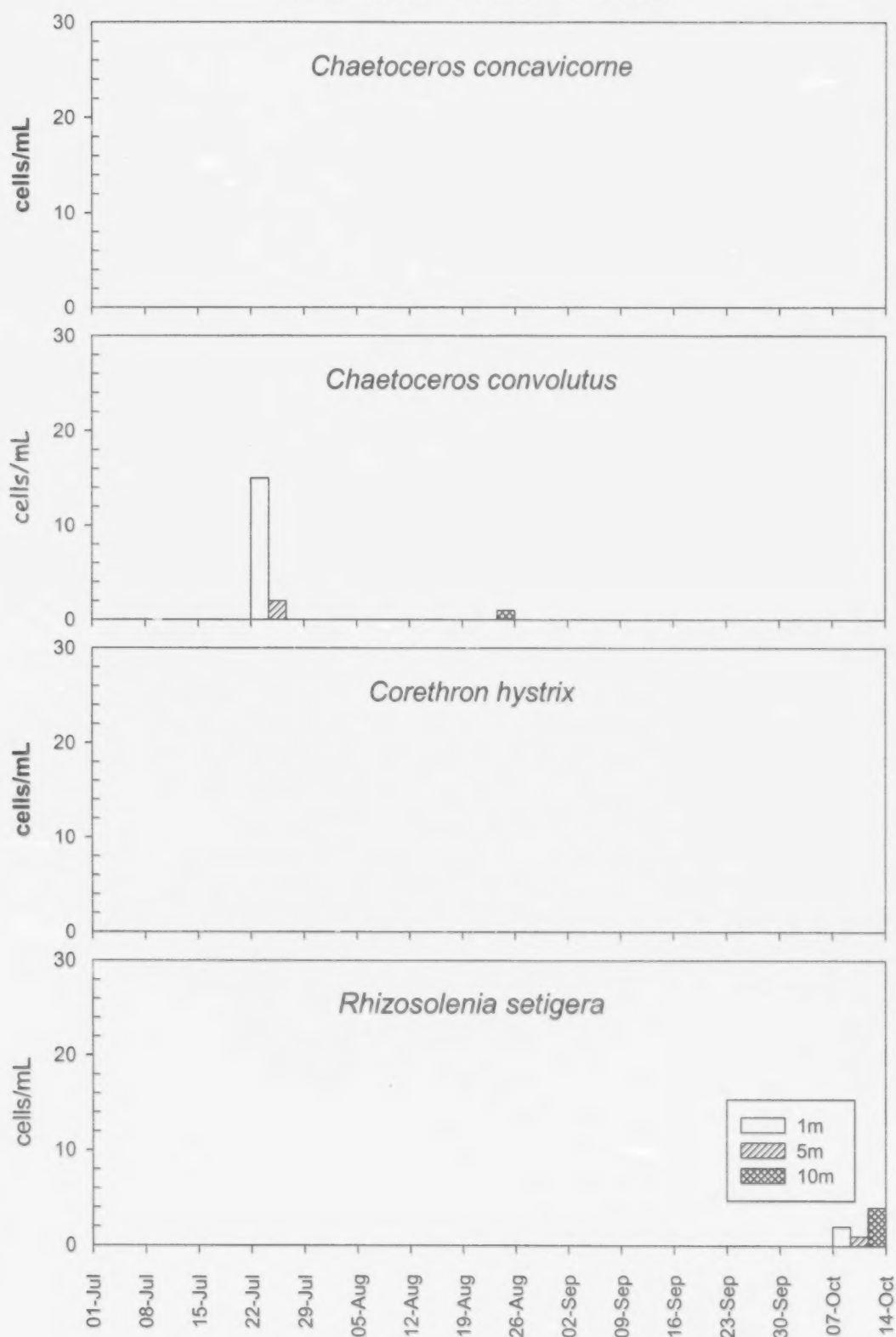


Figure 34: Harmful phytoplankton species in Cleagh Creek samples.

CLEAGH CREEK 1999

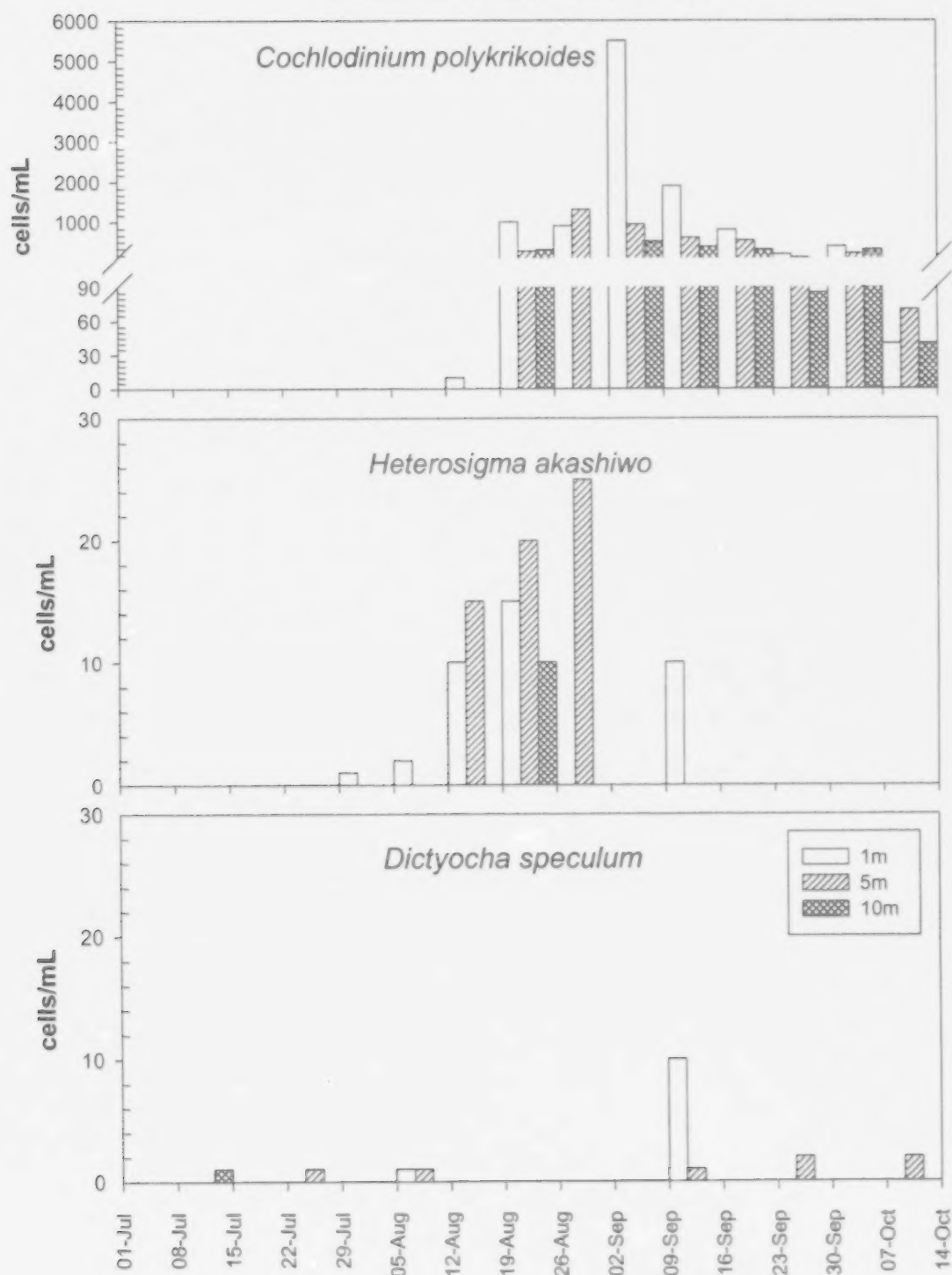


Figure 35: Harmful phytoplankton species in Cleagh Creek samples.

KULTUS COVE 1999

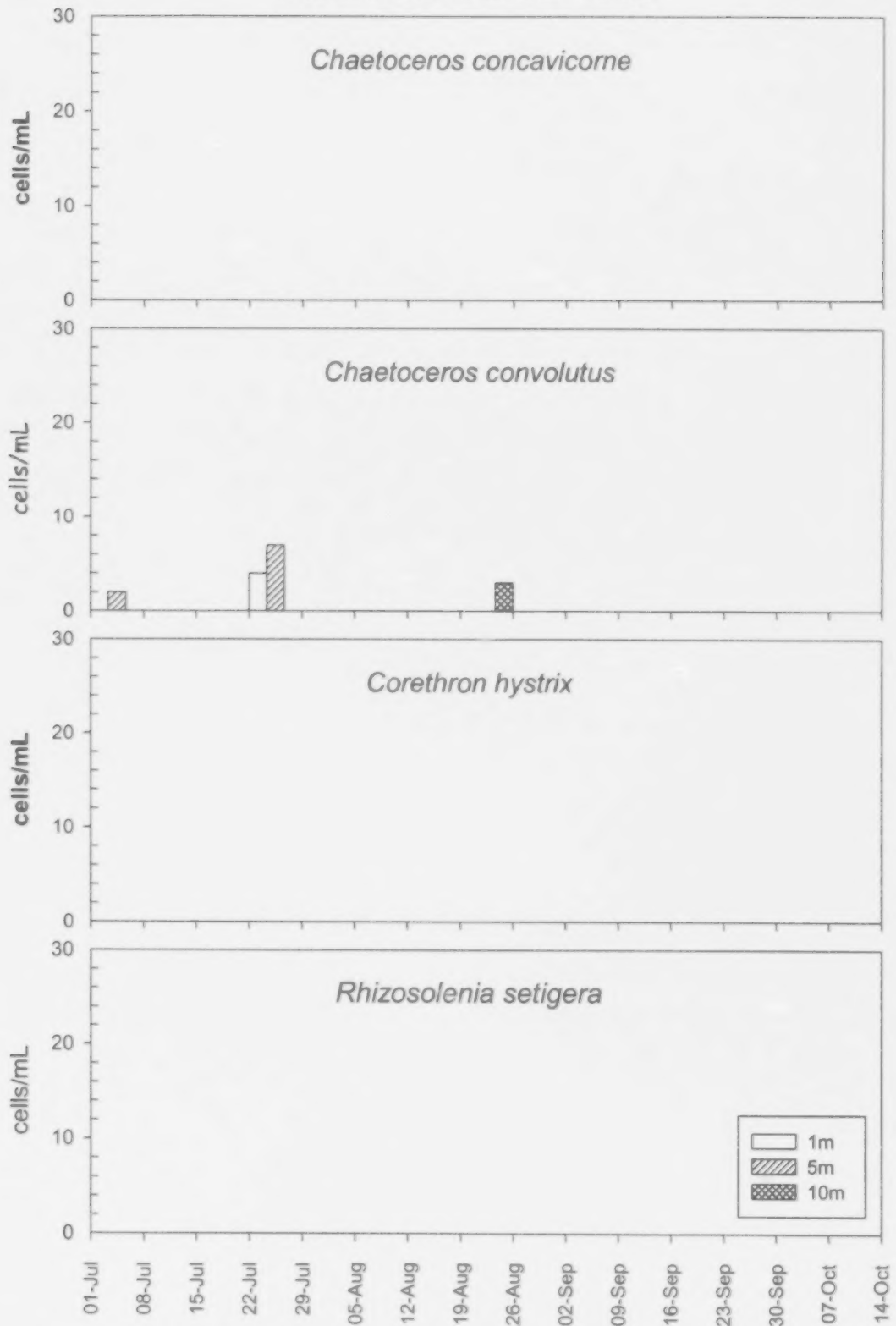


Figure 36: Harmful phytoplankton species in Kultus Cove samples.

KULTUS COVE 1999

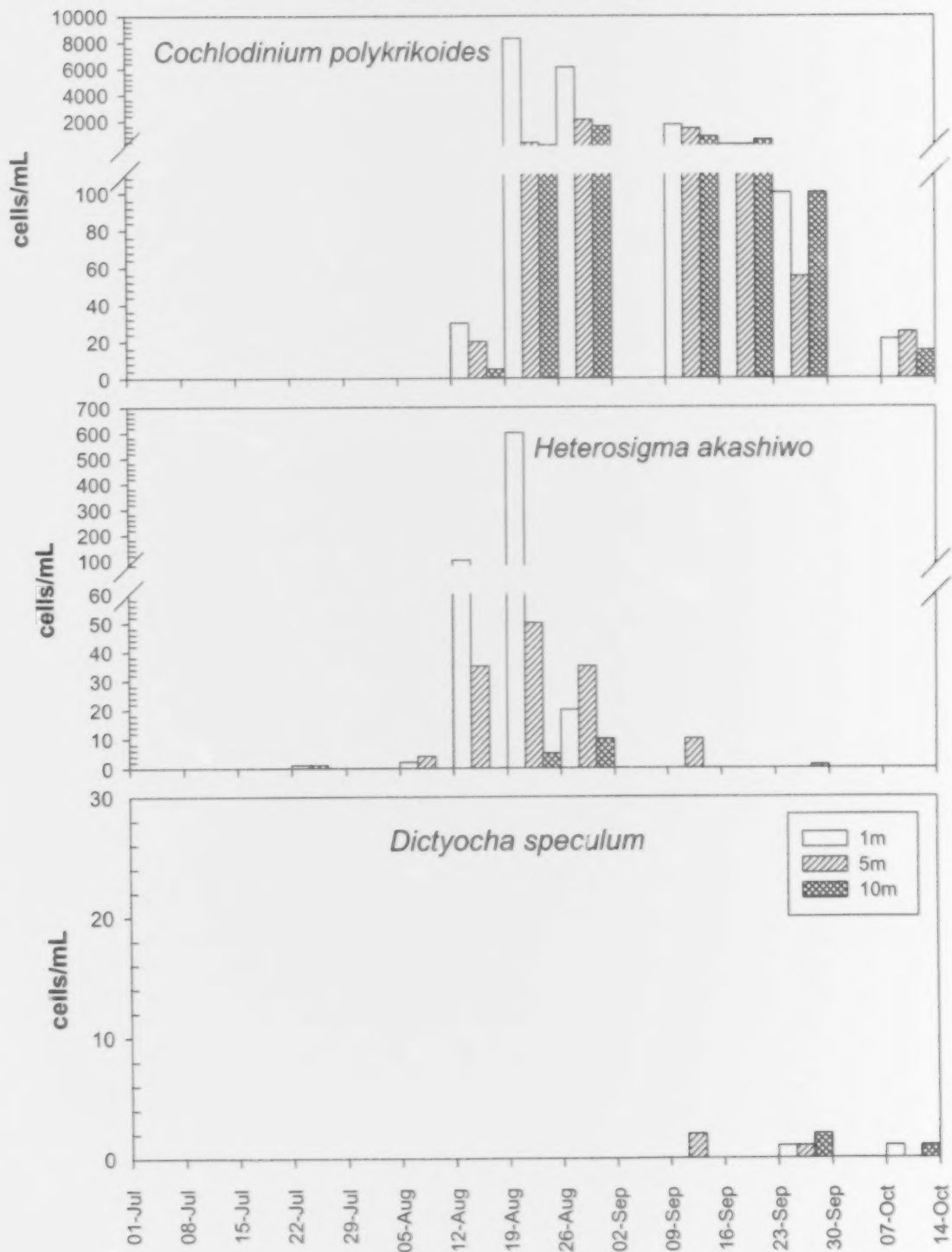


Figure 37: Harmful phytoplankton species in Kultus Cove samples.

Pretty Girl Cove 1999

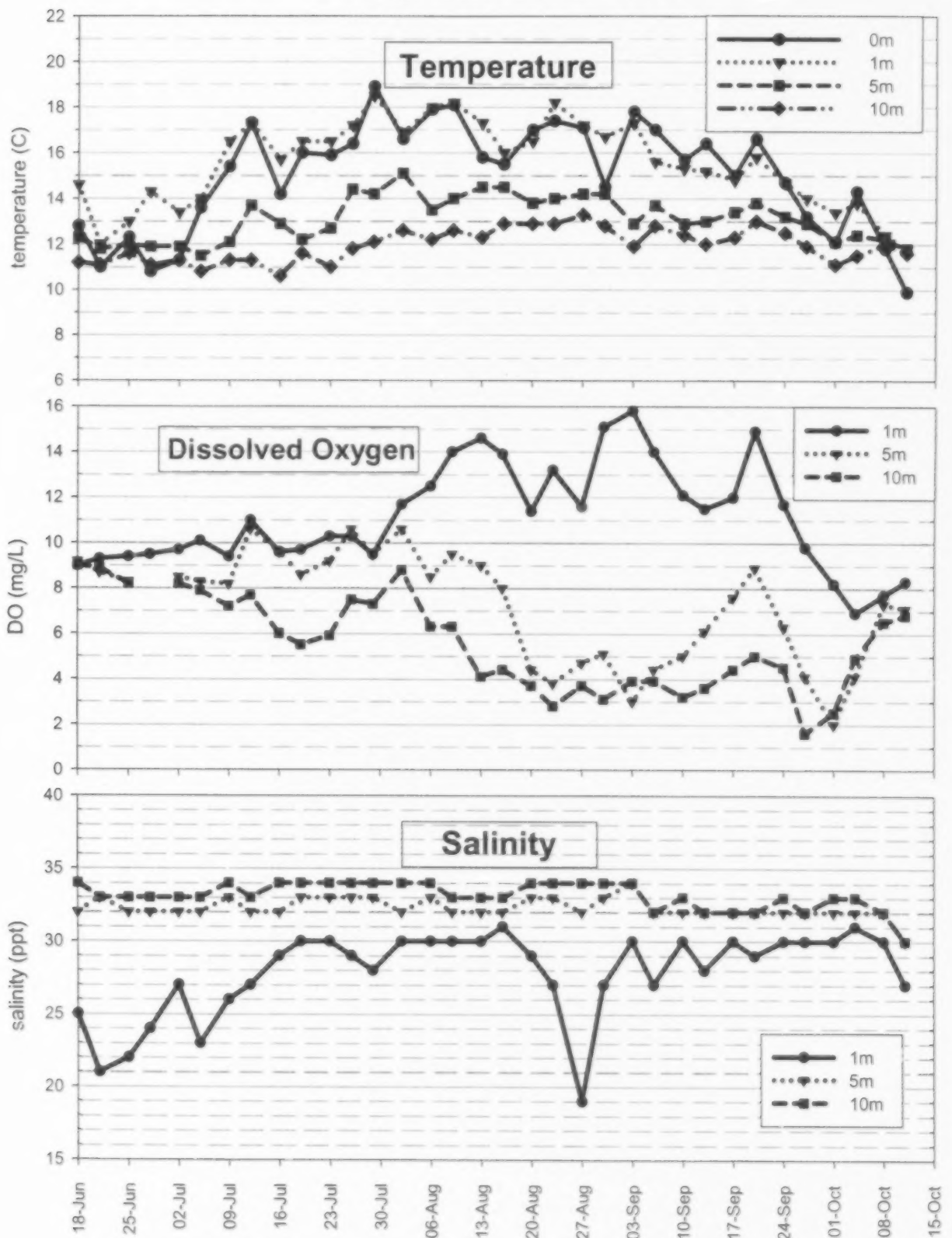


Figure 38: Environmental monitoring data for Pretty Girl Cove.

Bacchante Bay 1999

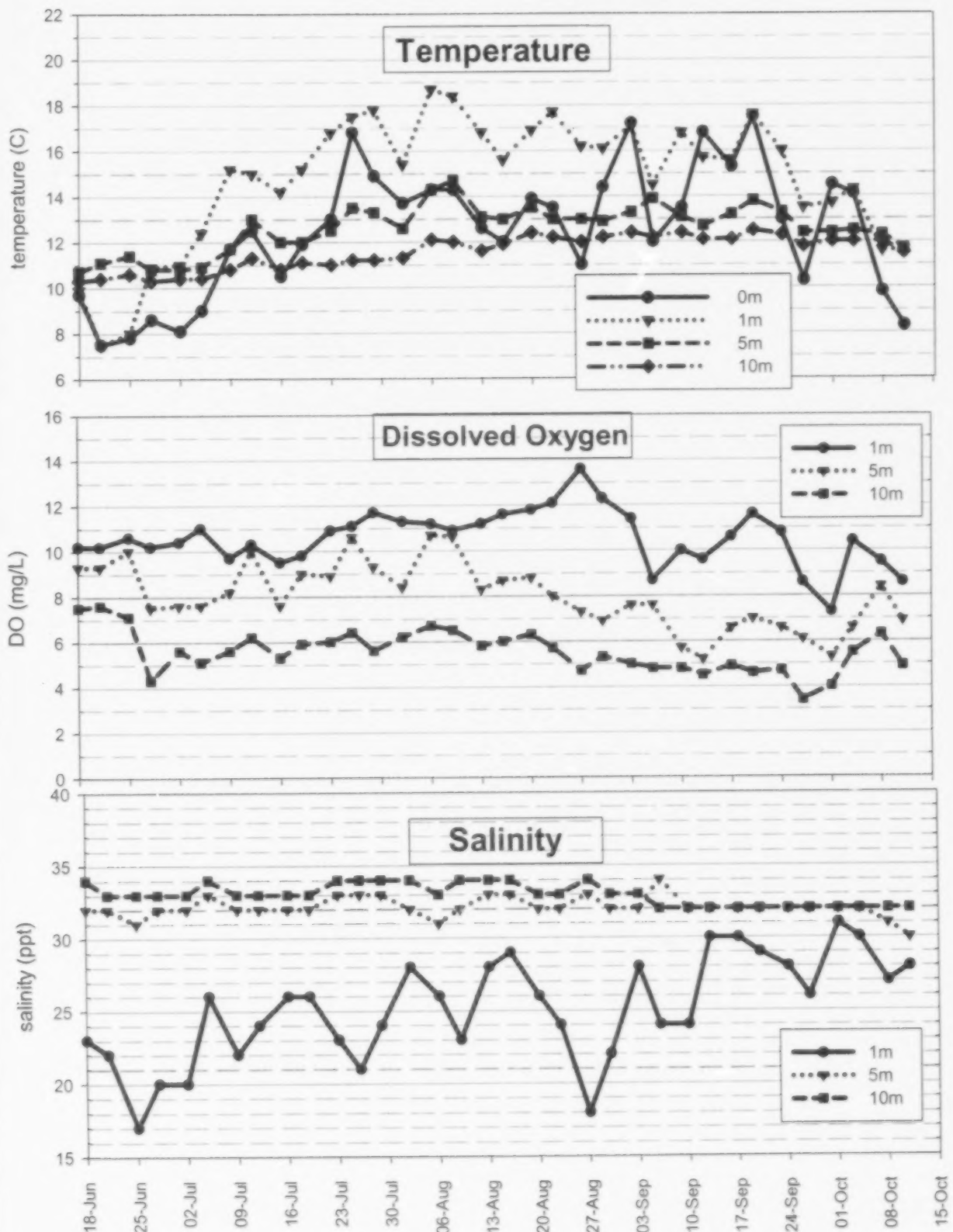


Figure 39: Environmental monitoring data for Bacchante Bay.

SHELTER CHANNEL 1999

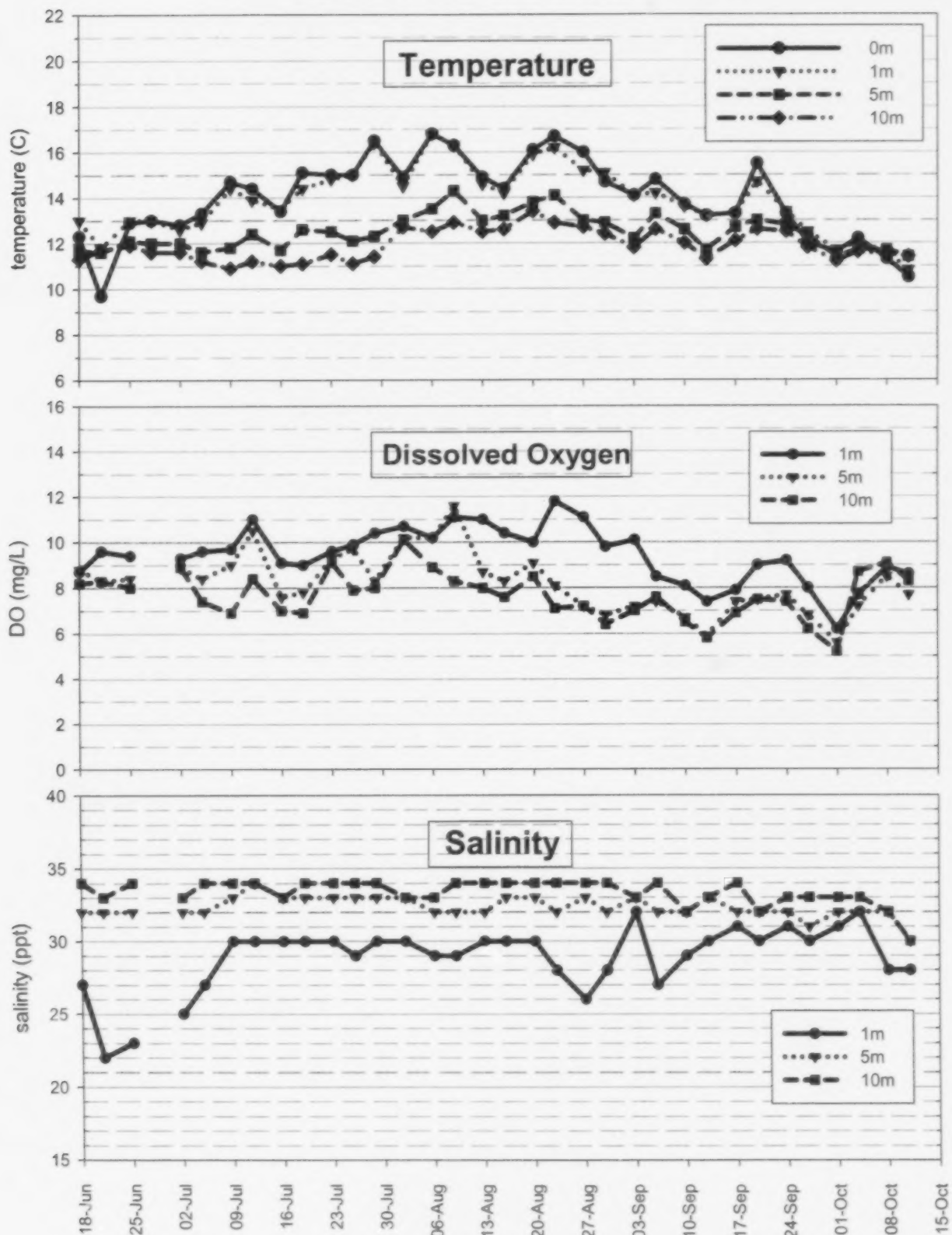


Figure 40: Environmental monitoring data for Shelter Channel.

THORPE POINT 1999

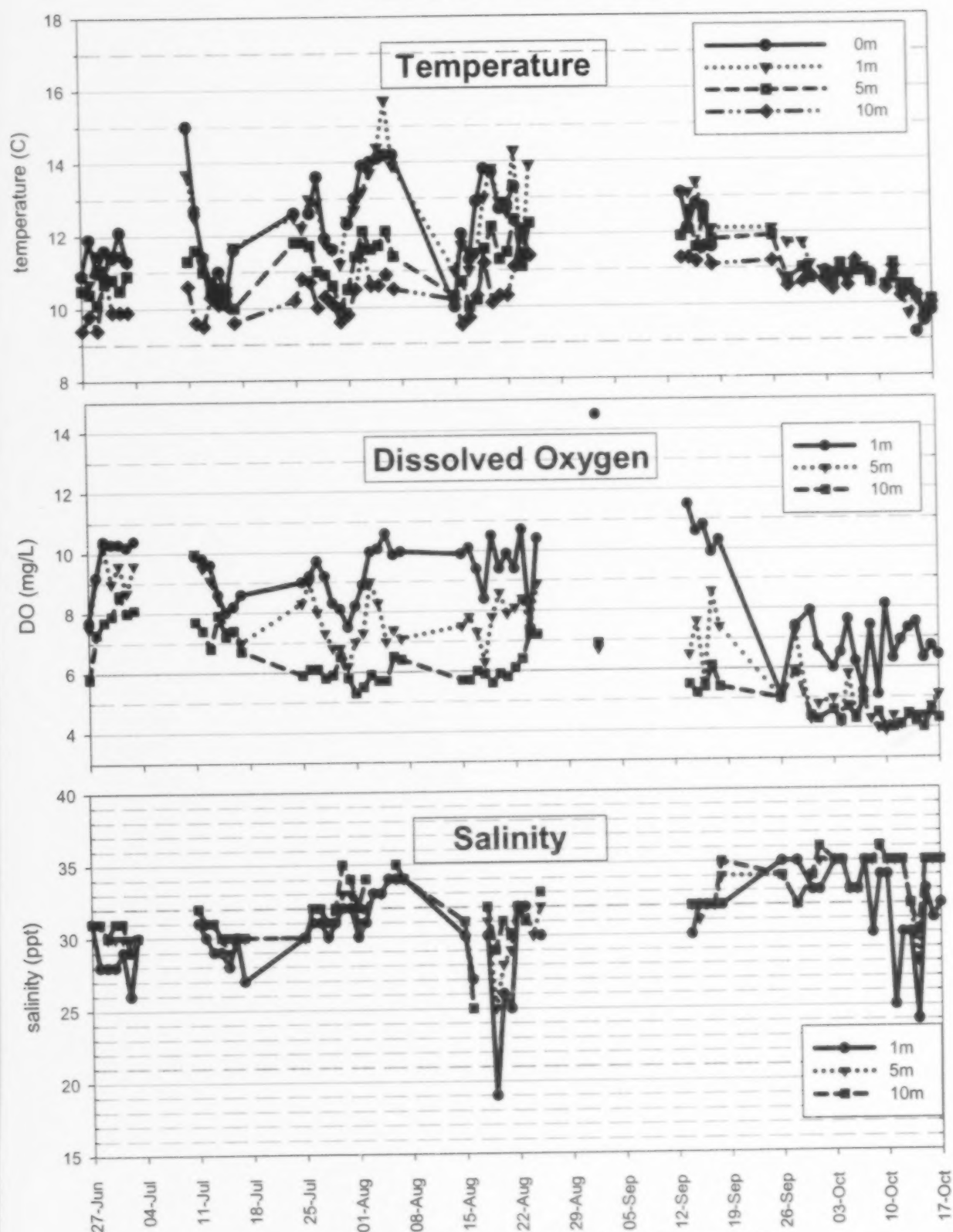


Figure 41: Environmental monitoring data for Thorpe Point.

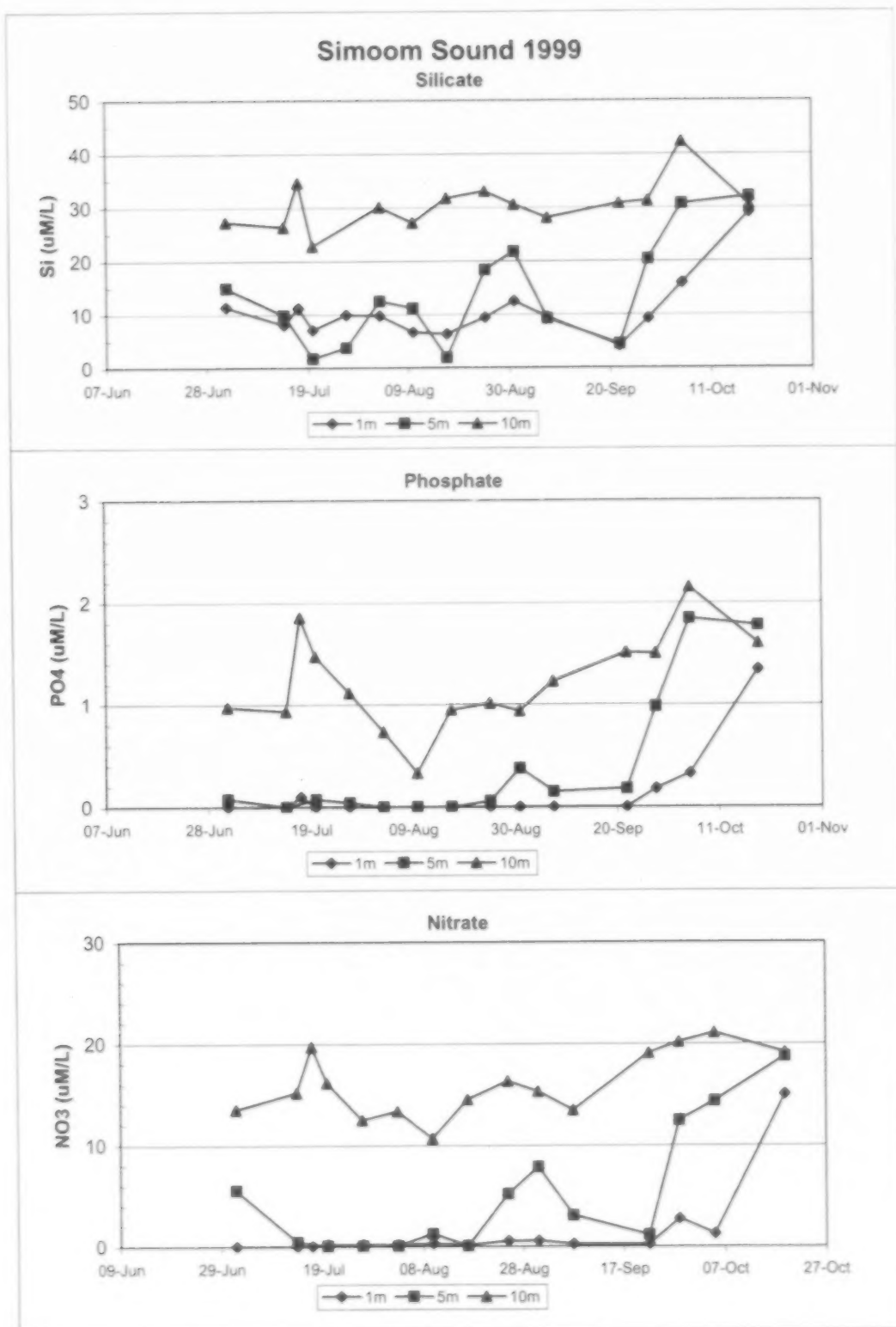


Figure 42: Nutrient concentrations in Simoom Sound samples.

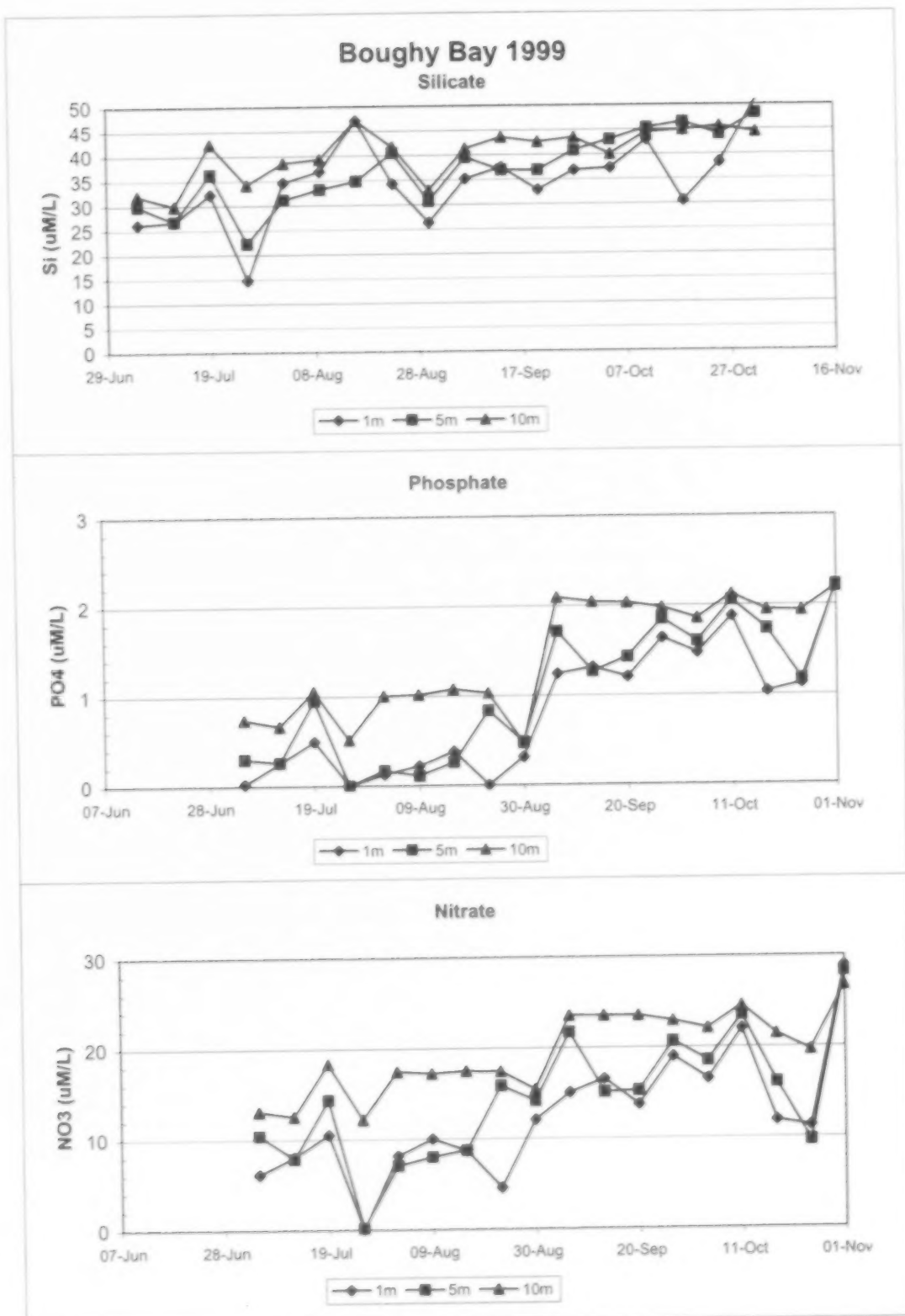


Figure 43: Nutrient concentrations in Boughy Bay samples.

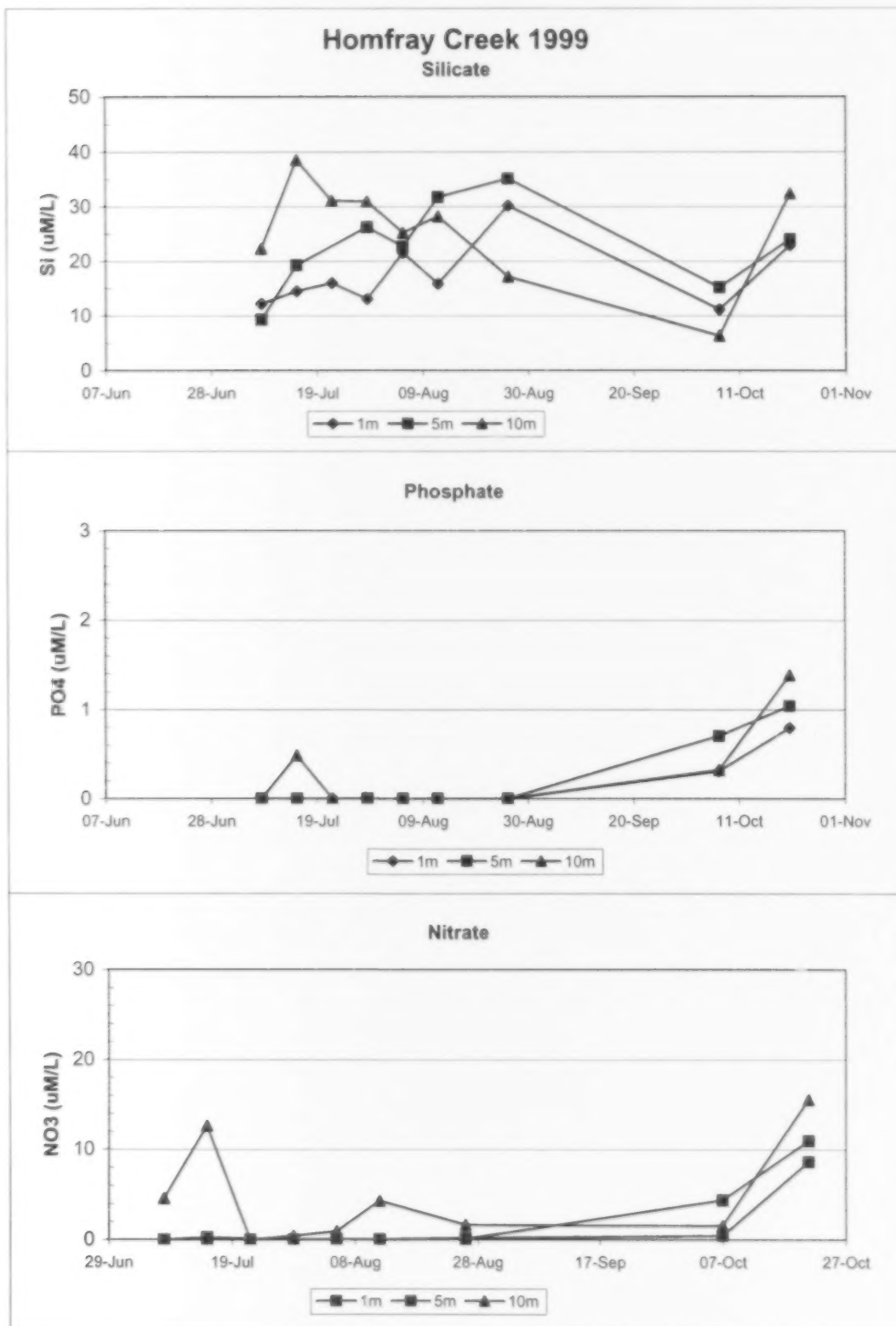
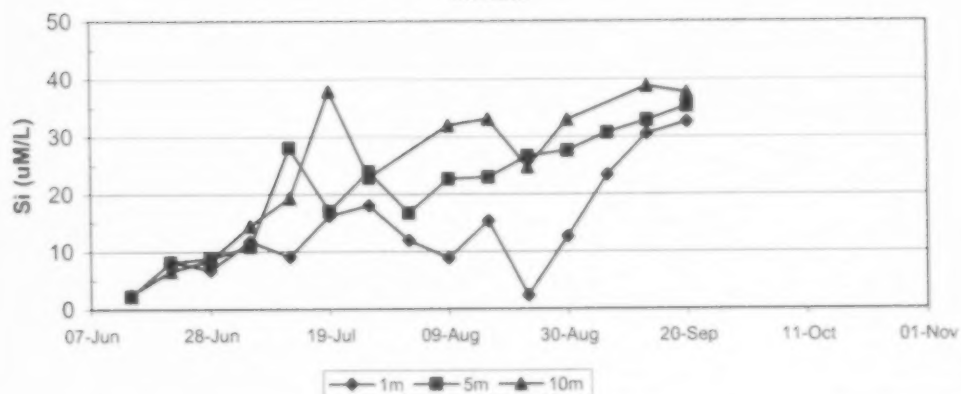


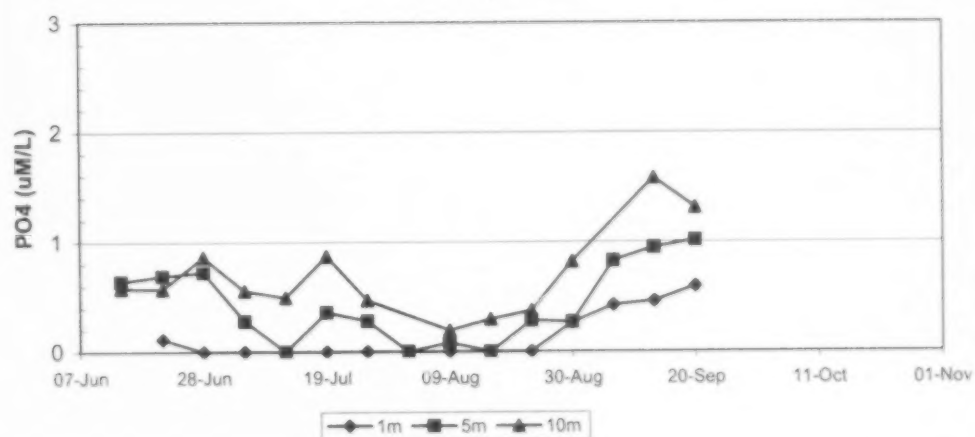
Figure 44: Nutrient concentrations in Homfray Creek samples.

Pretty Girl Cove 1999

Silicate



Phosphate



Nitrate

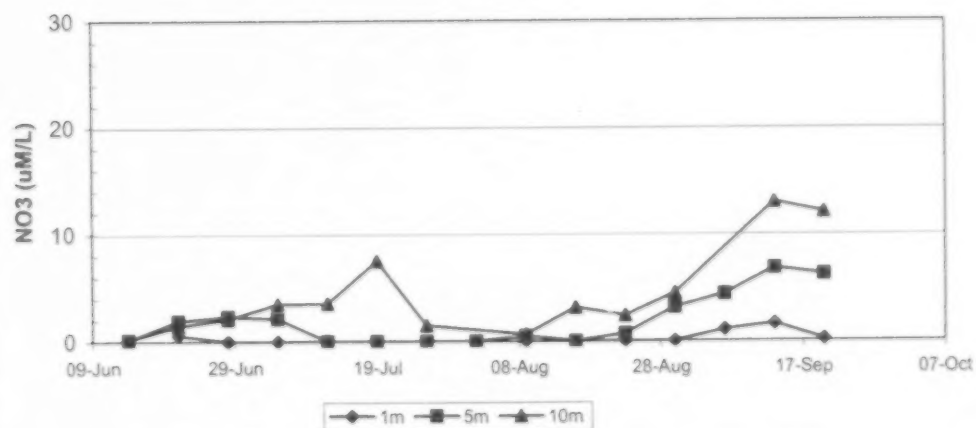


Figure 45: Nutrient concentrations in Pretty Girl Cove samples.

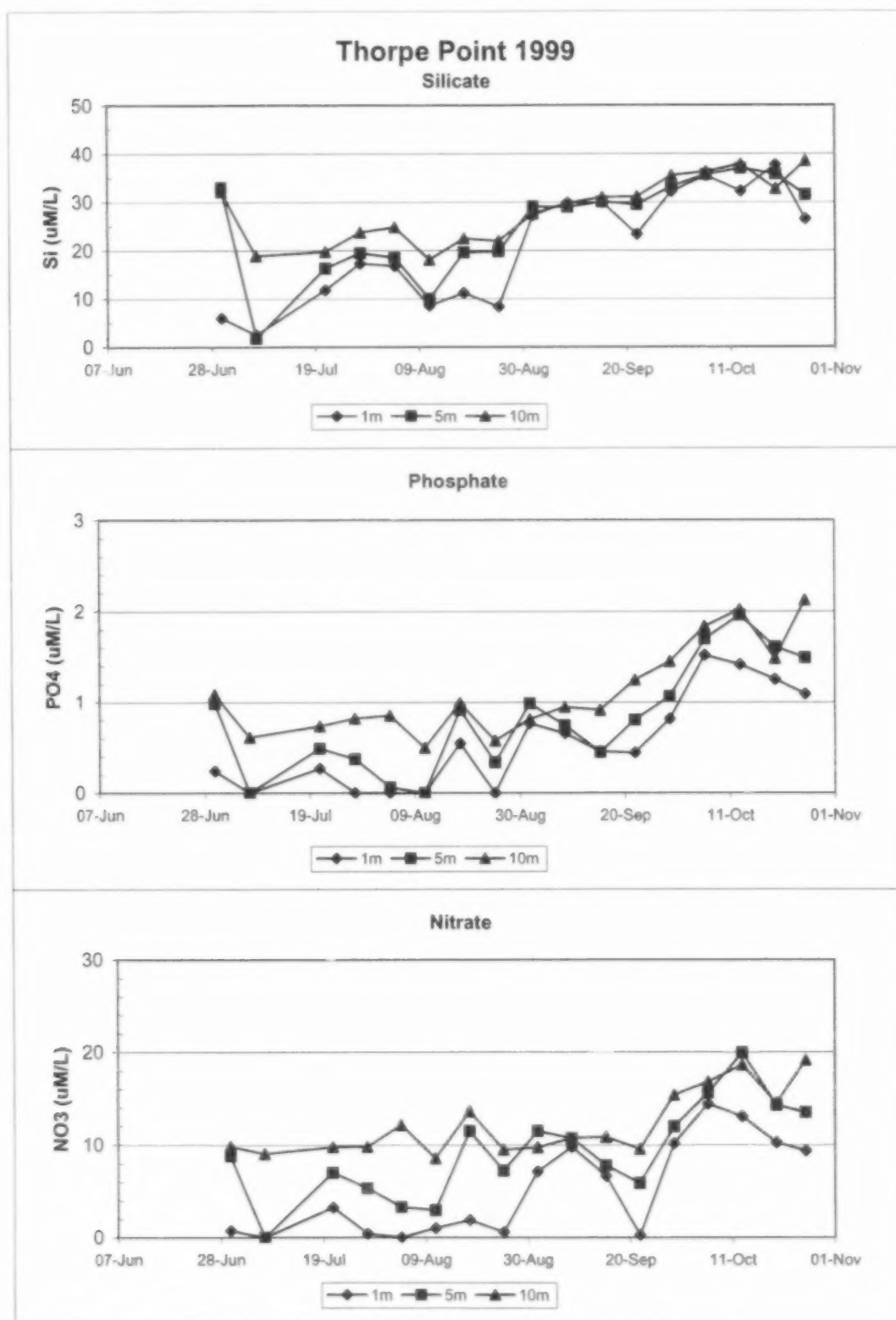
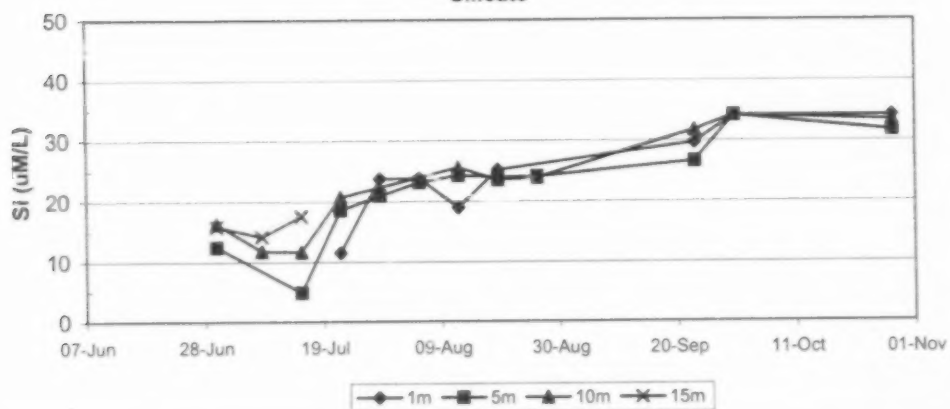


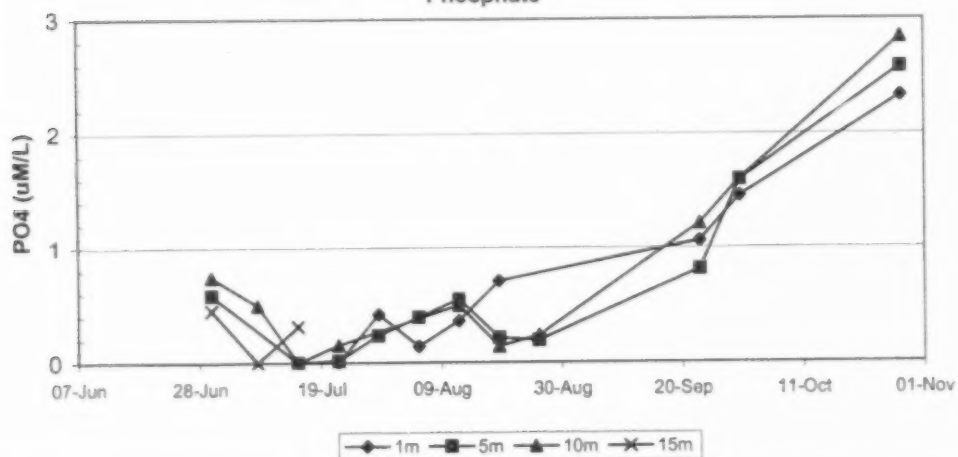
Figure 46: Nutrient concentrations in Thorpe Point samples.

Kultus Cove 1999

Silicate



Phosphate



Nitrate

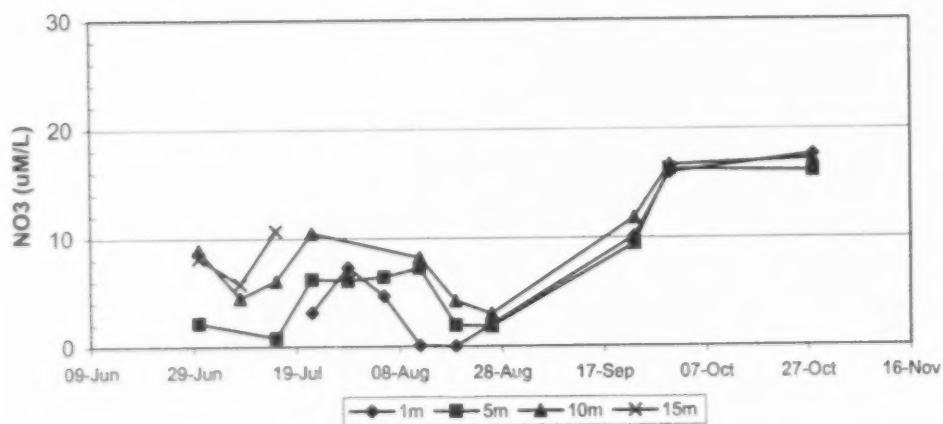


Figure 47: Nutrient concentrations in Kultus Cove samples.

